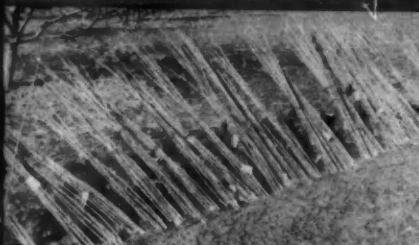


American Fruit Grower

WESTERN EDITION

JULY

1959



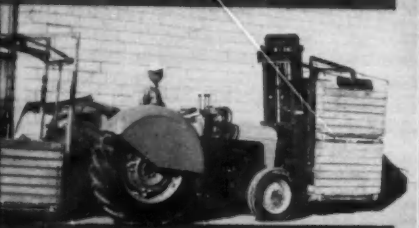
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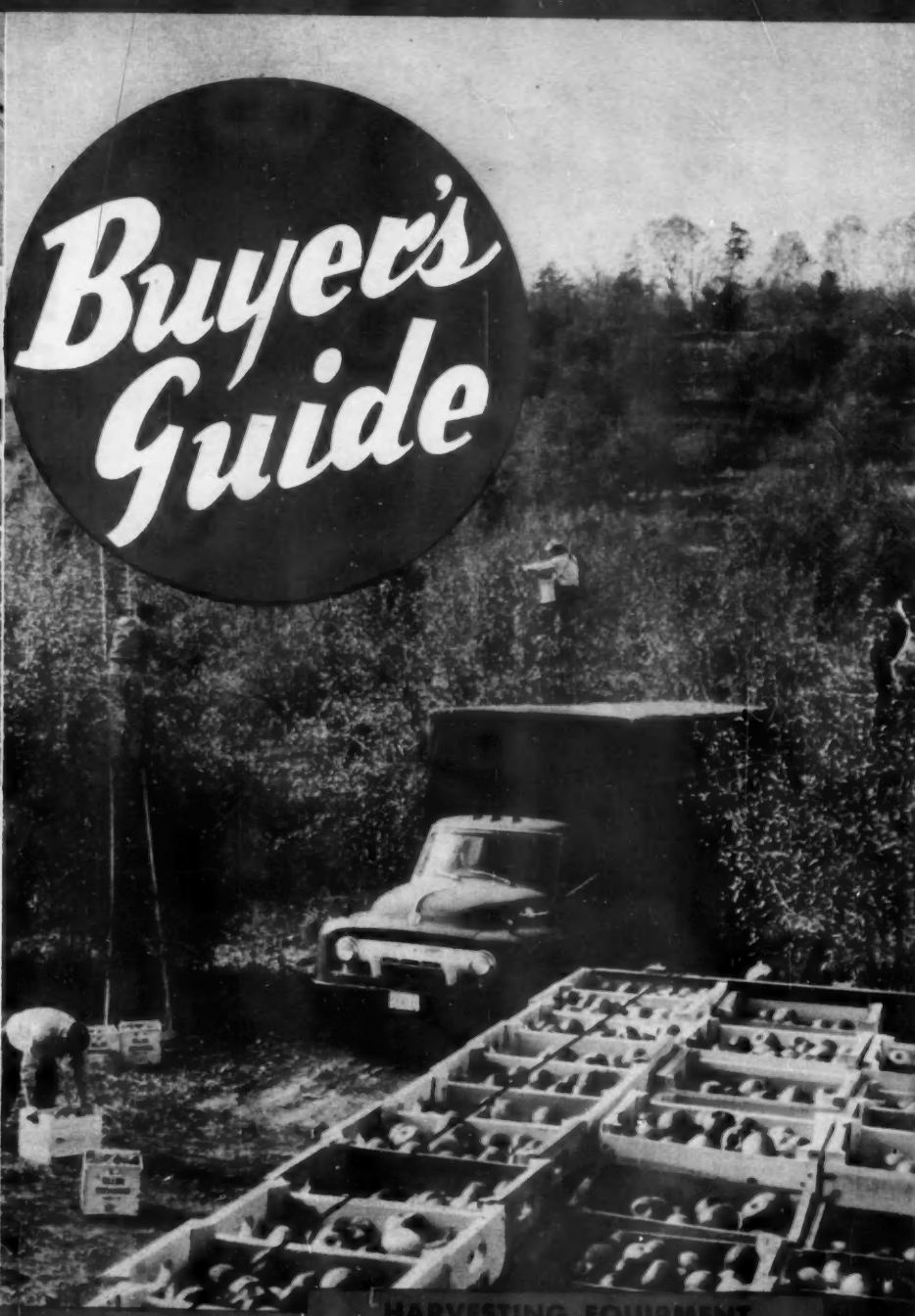
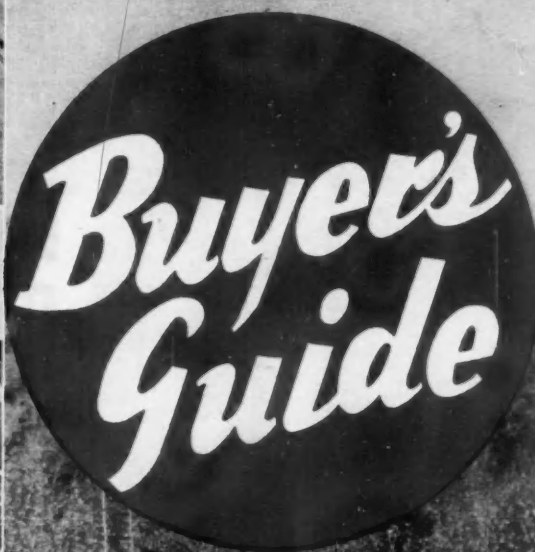
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National Farm Safety Week
July 19-25

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Third Cover	Codling Moth, Mites, Aphids	DDT, Aphicide, Miticide	GUTHION Alone
Fourth Cover	Apple Maggot, Codling Moth, Leaf Rollers, Fruit Worm, Aphids	Lead Arsenate, DDT & TDE, Aphicide, Miticide	GUTHION Alone
Fifth Cover	Apple Maggot, Codling Moth, Mites, Curculio	Lead Arsenate, DDT, Miticide, Parathion	GUTHION Alone
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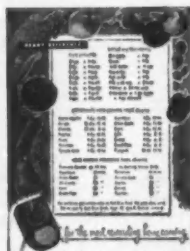
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American Fruit Grower

Cover photograph taken by I. Howard Spivak
shows apples being harvested in
Dillon Orchards, Hancock, Md.

VOL. 79

JULY, 1959

No. 7

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JULY, 1959

FRUIT



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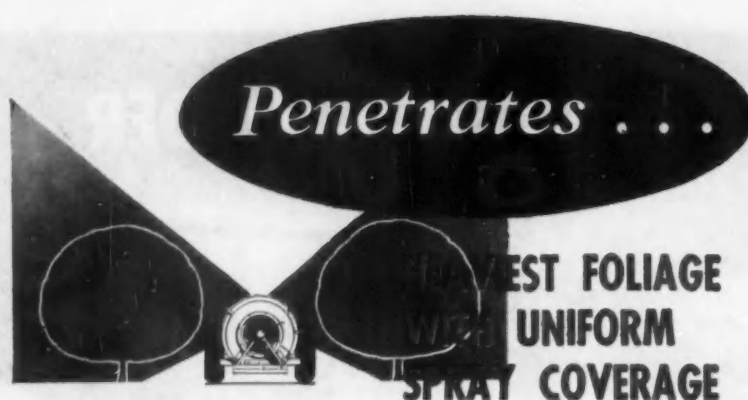
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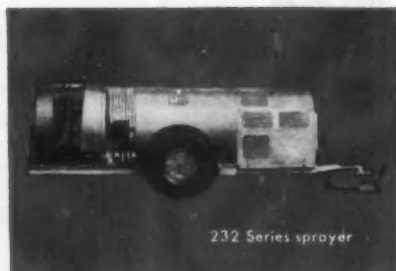
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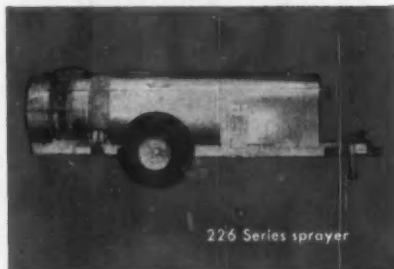
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The F. E. Myers & Bro. Co.
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NATIONAL APPLE MEET

KING Apple will be given an extra strong promotional push starting this fall. At the National Apple Institute meeting held in June at Lake Placid, N. Y., state and regional member groups estimated that a record breaking \$2,250,000 will be used to promote and advertise this year's crop. National advertising will be increased twofold over any previous campaign.

Washington State Apple Commission, which withdrew its support of NAI last year, is co-operating fully in the 1959 program.

A detailed plan for joining the National Apple Institute and International Apple Association was presented at the meeting. The merger plan provides for two divisions, one composed of state and regional organizations to be called the grower-shipper division and the second, composed of IAA individual membership to be called the industry division. The board of directors will consist of two-thirds from the grower-shipper division and one-third from the industry division.

This year's national crop was "guesstimated" by NAI delegates at 116 million bushels. The 1958 crop totaled 124,700,000 bushels.

Plans for an area-wide association to bargain with processors on apple prices are proceeding according to schedule. With more than 50% of the free processing tonnage in the Appalachian area signed up, growers are confident they control enough of the tonnage to make bargaining effective. The state groups (Md., Va., W. Va., Pa.) are now in the process of formally setting up a four-state organization to be known as Eastern Fruit Marketers.

All NAI officers were re-elected, pending merger with IAA.

CROP ESTIMATES

ESTIMATES place the peach crop at 78.9 million bushels. This is the largest crop since 1946. California's clingstone crop of 30 million bushels, the largest on record, is responsible for the increase. The rest of the U. S. crop is forecast at 48.9 million bushels as compared with 50 million last year.

Pears are forecast at 32.9 million bushels, the largest crop since 1949.

Sweet cherry production for the U. S. is forecast at 83,500 tons. Last year's tonnage totaled 87,610. The western states will produce below last year's crop while the Great Lakes area is showing above. Oregon is expected to lead all states with an indicated crop of 24,700 tons.

Six red tart cherry-producing western states are forecast to contribute 8460 tons of these cherries compared with 11,120 tons in 1958. For the six Great Lakes red tart cherry states, production is set at 129,800 tons, or 37,000 tons more than in 1958 when 92,800 tons were produced.

AMERICAN FRUIT GROWER

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mites
away
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KELTHANE quickly kills most of the troublesome mite species, including "resistant" strains. **KELTHANE** is excellent for an immediate mite clean-up. Its long-lasting action prevents the development of mite populations by migrants or newly hatched colonies. Long-lasting residual activity also means fewer applications per season . . . more dollars saved. **KELTHANE** will help you harvest more

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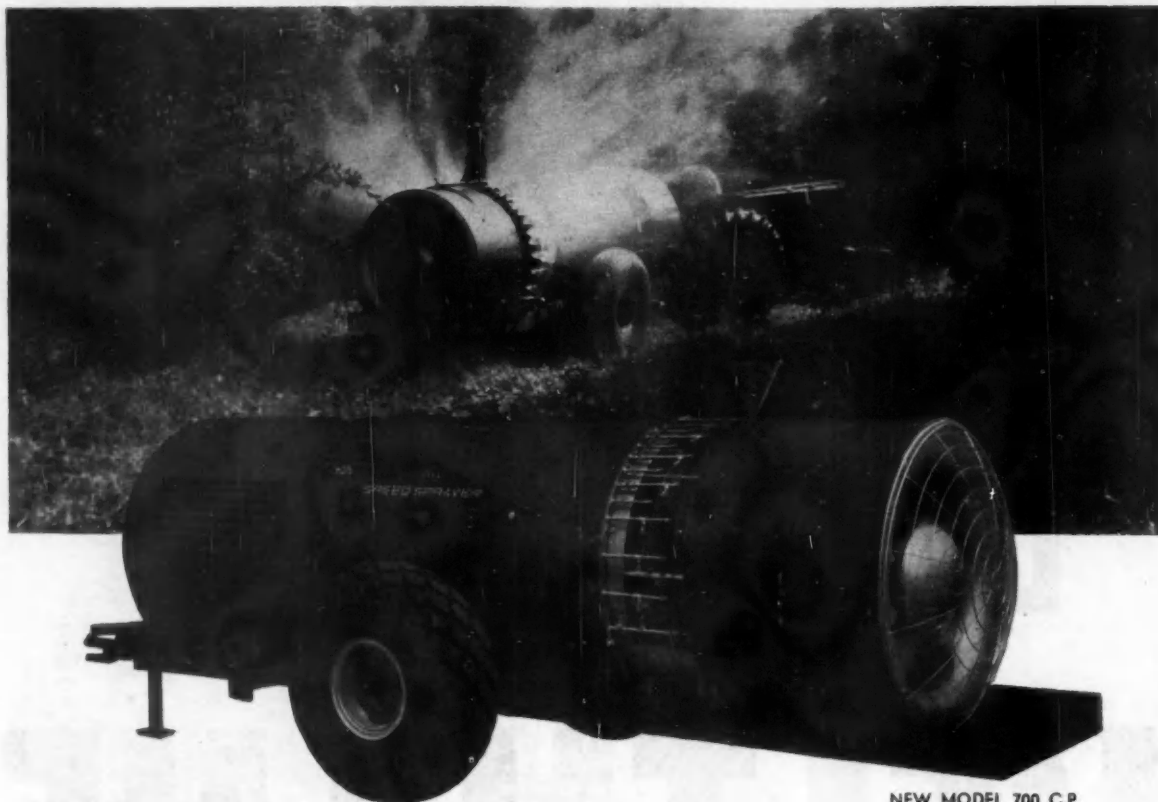
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SPEED SPRAYERS[®] for '59**

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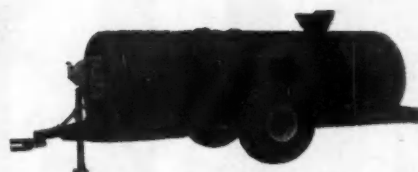
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AMERICAN FRUIT GROWER

Lost in Paper Work?

**"Not any more," says Bill Mitchell,
controller for a large grower-shipper.
Here's how they solved their paper problem**



"Mechanized accounting also saves my company money by conserving personnel," exclaims Bill.

By **WILLIAM R. MITCHELL**

*Mondavi and Helzer Packing Company,
Del Rey, Calif.*

TRYING to make an out-dated system serve a volume operation to avoid costs of changing methods can be extremely false economy, we have learned at Mondavi and Helzer Packing Company.

The lesson first took shape two seasons back when our invoicing and bill of lading writing was completely manual although our shipments were approaching 800 cars, or 800,000 lugs of fruit, during the June to November season.

We typed four standard railroad bill of lading copies by hand, manually inserting three carbon sheets for the job. Invoices were extended on a

desk calculator and typed on a typewriter. Standard single invoice forms were used and again the typist had to insert carbons by hand. Smudgy, hard-to-read copies often resulted. Posting to accounts receivable and other ledgers from a copy of the invoices followed this operation.

At the height of the season, fruit moved so fast that we could not keep up, and, once behind, it grew worse. At times, our invoicing was two weeks behind shipment. In fact, we even received payment on some orders before we had written the invoice! In addition to the bill of lading, we sometimes had to prepare a manifest to show what was shipped.

At the end of the season we determined to improve the system, no matter what. We installed a National

Cash Register 31 accounting machine and asked The Standard Register Company to design for us invoicing and bill of lading forms specifically planned to co-ordinate with the capabilities of this machine.

With only one machine operator compared to three persons required to prepare the obsolete forms used the previous year, our invoices followed shipments within 24 hours and our bills of lading were current to the carload. We estimated that our efficiency was improved 1000% and that —by the end of that single season— our new system had more than completely paid for itself!

In the first place, the combined invoice-bill of lading form provided by The Standard Register Company completely eliminates the time-consuming business of preparing forms for writing.

The form is a unit "Zipset" constructed with one-time carbons interleaved as an integral part of the form. It is ready for immediate insertion into a typewriter or the NCR 31. The form is prenumbered for control and filing, with each of the nine copies carrying the same number.

Forms of this "Zipset" type are so constructed that all carbon sheets may be removed automatically, and the forms easily separated after typing, by simply zipping off a "stub" on the form. Our particular form has a double stub, one at the top and one at the bottom. This enables us to

(Continued on page 12)



Photos courtesy Standard Register Co.
Bill of lading and invoice copies of nine-part Standard Register Zipset form are prepared on this National Cash Register 31 accounting machine.

A SHANGRI-LA for Sweet Cherry Growers

Flathead Lake offers growers a profitable business while they enjoy the life of Riley

By R. T. MEISTER
Editor

ON the eastern shore of Montana's Flathead Lake nature makes it possible to grow a firm, high quality sweet cherry. Today there are 200 growers in the valley who produce 150 carloads marketed through grower-owned warehouses.

The Robbin brothers were among the first to appreciate the possibilities of the valley for sweet cherries. As Hector Robbin said, "We have a stony, well-drained soil and stony fruit want stony ground."

The lake tempers the cold winds, providing relatively mild winters with little or no winterkill. Summer nights are cool so that the cherries are firm, hard, and filled with sweetness. It is a popular saying that Flathead Lake cherries are so firm that even though ripe they will bounce when dropped.

R. J. (Rudy) Robbin and Hector each have a 5-acre orchard side by side with one central picking and packing shed. Most of the orchards in the valley are small. The owners are in many cases retired business men who came to Flathead Lake to live and enjoy the grand scenery of the "Land of the Shining Mountains," and the hunting and fishing. As Rudy Robbin put it, "We live the life of Riley." Two other brothers, F. A. (Art) and R. O. (Ray) also have 10 acres of cherries.

The Robbin brothers originally had a family hardware business in Kalispell at the end of the lake. In 1930 they sold out and retired to the lake to grow fruit. They purchased 100 acres which was divided into 5-acre orchards and all were sold in the early thirties despite the great depression. Today a 5-acre orchard with modern home and frontage on Flathead Lake may sell for as much as \$50,000.

If there exists a Shangri-La for sweet cherry growers, Flathead Lake must be it. Insects and diseases, the scourge of fruit growers, don't seem



Cecil L. Miller, secretary of Flathead Lake Cherry Growers, Inc., shows 5-pound gift box.

to like the climate. Only two or three sprays are necessary in the Robbin orchards and these are applied by custom sprayer Leonard Tienvold, of Big Fork. Nitroprills, superphosphate, and barnyard manure are used in the fertilizer program along with pea straw mulch when available.

A big problem is pollination. In Rudy Robbin's orchard 90% of the cherries are of the Lambert Variety, preferred to Bing because it does not crack so readily. For pollinators Rudy has planted Deacon, Stark's

This poly-wrapped double row faced lug holds 14 pounds of fruit. Cherries are also loose-packed in 20-pound lugs; some are gift boxed.

Gold, Black Republican, Long Stem Waterhouse, Windsor, Centennial, and Van. Some of these pollinators bloom early and some late, thus there is sure to be an overlapping of the Lambert bloom. Most of his trees are purchased from C & O Nursery, at Wenatchee, Wash.

Rudy Robbin enjoys and does his own pruning. He is proud of the fact that he was the first to introduce the Seymour Smith Snapcut pruner which is now widely used in the valley. He prunes every year to remove dead wood and to keep the trees from getting too high.

Since sweet cherries seem to be especially susceptible to winter injury at the trunk, each tree is protected with an aluminum shield at the southwest corner. This shield keeps

AMERICAN FRUIT GROWER



Hector Robbin, left, and his brother Rudy, right, with W. S. Goodson, orchard manager.



Rudy demonstrates wire guards for protection against deer and bear. Aluminum shield keeps off winter sun, gives year and number of tree.

the sun from heating up the trunk on a bright winter day and drawing up the sap which may then freeze during the cold night following, causing the bark to split and eventual death of the tree. The shield also identifies the tree by having a number and the year of planting on it.

Young trees are protected in a similar manner. It is hard to get sweet cherry trees to grow, but plenty of water and shading of the bark gets them off to a good start.

Each young tree is guarded with wire mesh fencing to prevent deer and bear damage. Bears get particularly troublesome in the cherry or-



Picking Lamberts in the Hector Robbin orchard. Pickers earn 4 cents a pound, can make \$20 a day in height of season. Trees average 250 pounds.



Nat Boyd manages sales for both Flathead Lake Cherry Growers, Inc., and the growers co-op.

chards when there is a shortage of huckleberries in the hills.

The wild game in the Flathead Lake area makes it a sportsman's paradise. The Bob Marshall wilderness area is back of the orchard area in the mountains. A wilderness area has been set aside by an Act of Congress so no roads may penetrate it, no buildings may be erected in it, thus it will retain its primitive state.

When the orchards around Flathead Lake began to come into bearing, it was apparent that facilities for packing and shipping were necessary. Hector Robbin negotiated with the Great Northern Railroad to erect a warehouse to be run by the growers, payment being made by assessment on the cherries packed.

Today the Flathead Lake Cherry Growers, Inc., at Kalispell, have a \$200,000 plant, completely paid for. It is a group selling association organized as a corporation. Each mem-

ber must invest \$440 for each acre of his land and he has one vote per acre.

At the other end of the lake, at Polson, is the Flathead Lake Sweet Cherry Growers Association, a co-operative. Sales manager for both warehouses is Nat Boyd.

Cherries are packed mostly in 14-pound single- and double-row faced lugs, poly wrapped, and 20-pound loose pack, with some gift business in 5-pound faced boxes. Quite a gift business is done with corporations. Last year's price was \$4.95 for the 5-pound box (including express), and \$9.95 for the 14-pound pack.

Despite a half inch of rain one night during last year's harvest, Rudy Robbin's cherries looked fine with hardly any cracking. His production was around 60,000 pounds.

Pickers are paid by the box. In 1958 they made 4 cents a pound or 80 cents for a 20-pound box. Some trees will carry up to 700 pounds, but the average is closer to 250 pounds. Pickers can make \$20.00 a day during the height of harvest.

There will never be many cherries produced at Flathead Lake. The land just isn't available. But the growers who got there early have found for themselves a life of Riley in addition to a Shangri-La for sweet cherry production.

THE END.



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Here's how
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See your True Temper dealer today.
True Temper, Cleveland 15, Ohio.

TRUE TEMPER
THE RIGHT TOOL FOR THE RIGHT JOB

LOST IN PAPER WORK?

(Continued from page 9)

separate quickly the four bill of lading copies at the back from the first five invoice copies and retain each copy in unit sets.

The double stub feature is used particularly for night shipments when the NCR 31 is not in operation. A clerk in the packing shed can type in all information, except price, then tear off the back four bill of lading copies and put the shipment under way. One copy of the bill of lading goes to the carrier, who will check the clerk's quantity shipped extension. Two copies are sent the receiver and a fourth comes to the NCR 31 with the invoice portion of the form and with the original order from the customer.

In most cases, however, both the invoice and bill of lading copies are prepared on the NCR 31, which is so designed that pricing information is pre-coded into a program bar. Once the operator, using the standard type-writer keyboard section of the split keyboard, has written in header information, lug size, description and quantity, she has only to key select the proper code for that particular variety of fruit and the machine automatically and immediately extends the total for each lug size included in the order and writes in the amount.

In the case of juice grapes, which are sold by the ton rather than by the carton, the machine stores weight information and writes net weight and charges in appropriate blanks at the bottom of the invoice. After pre-cooling charges, if any, are entered on the invoice the machine—working from the item amounts stored within it—automatically extends the total for the complete invoice.

At the same time, it writes this amount onto our accounts receivable ledger sheet for that particular account which is in position on the opposite side of the machine's long platen.

The invoice and bill of lading are then split and the bill of lading is sent to the packing shed.

The first two of the five invoice copies are sent to the buyer or broker, another goes to our numerical office file with all papers pertaining to that particular carload of fruit, a fourth is placed in the broker's file where we keep a complete file of all purchases by each of our brokers, and the fifth goes to our sales department for use in sales analyses.

Our NCR 31 visibly proves its own figures as it goes and virtually eliminates the costly and embarrassing errors which seemed an inevitable outgrowth of our former overloaded system. The new system has completely eliminated manual calculating,

has combined invoicing and bill of lading writing into one form, and has eliminated the need for hand posting to accounts receivable.

Another example of how forms can be designed to serve in connection with specific office equipment is another simple Zipset form which we use as a daily time report. These forms are provided in three-copy units to each field foreman and give us a complete breakdown on every worker's time and wages and time spent on each type crop. It is a three-part form, one part used for accounting advice, one going to the grower to whom the labor is co-signed, and one used to make charges against the grower's account.

Again, extension is automatic on our NCR 31 by simply key-selecting the proper code. Considering that we sometimes have as many as 600 employees in the field and 200 in our packing sheds, this becomes an important factor in our cost distribution.

We are convinced that modern accounting equipment, teamed with forms designed for efficiency, will more than pay their way in any volume operation.

THE END.

APPLE ORDER GETS GREEN LIGHT

NEW YORK State's first apple marketing order went into effect on July 1 after being signed by State Agriculture Commissioner Don A. Wickham. The Commissioner designated Horace M. Putnam, Rose, N.Y., as administrator of the order.

Over 75% of about 800 growers who went to 58 polling places throughout the state voted in favor of the referendum.

The marketing order provides that not more than 3 cents a bushel be assessed on all fresh apples sold, not more than 2 cents a cwt. on apples processed for juice, and not more than 4 cents a cwt. on those processed for other purposes.

The Apple Marketing Advisory Board will consist of nine members. Growers have nominated six growers from eastern New York and six from the western part of the state. Three from each section will be selected by Commissioner Wickham.

New York State canners and freezers and the Association of Refrigerated Warehouses will be represented by the Commissioner choosing one each of their two apiece nominees.

The ninth member, also to be selected by Commissioner Wickham, will be a disinterested party representing neither growers, processors, nor storage men.

The expected annual income of some \$400,000 is to be used for promotion, advertising, and marketing research.

AMERICAN FRUIT GROWER

CALENDAR OF COMING MEETINGS & EXHIBITS

July 7-9—10th Annual Fertilizer Conference of Pacific Northwest, Winthrop Hotel, Tacoma, Wash.

July 8-10—National Cherry Festival, Traverse City, Mich.

July 13-18—Pre-IAA convention bus tour of Washington State fruit-producing areas in Hood River, Yakima, Wenatchee; group leaves Chicago by plane **July 12**—College Travel Office, 130 W. Grand River, East Lansing, Mich.

July 14—Horticulture field day, Lexington, Ky.

July 14-15—Texas Pecan Growers Association annual convention, Hotel Texas, Fort Worth. Benton Storey, Sec'y, Texas A & M College, College Station.

July 15—New York and New England Apple Institute annual meeting, Middlebury, Vt.—Wm. H. Darrow, Pres., Putney, Vt.

July 20-22—International Apple Association, Inc., 65th annual convention, Olympic Hotel, Seattle, Wash.—Fred W. Burrows, Exec. Vice-Pres., 1302 18th St., N. W., Washington, D.C.

July 28-29—Annual 4-State Summer meeting for apple growers, Adams County, Pa.—Headquarters, South Mountain Fairgrounds, Arendtsville.

July 30—Orchard and Field Crops Day, Mahoning County Experiment Farm, Canfield, Ohio. Starting time 9:30 A.M. DST.

Aug. 5—Connecticut Pomological Society meeting, Bishop Orchards, Cheshire.—Brainerd T. Peck, Sec'y, Lakeside, Conn.

Aug. 9-12—American Institute of Cooperation, 31st annual summer session, University of Illinois, Urbana.—G. L. Jordan, Dept. of Agr'l Economics, U. of Ill., Urbana.

Aug. 12—Maine Pomological Society field day, Highmoor Farm, Monmouth.

Aug. 13—Annual Minnesota-Western Wisconsin Orchard Tour, La Crescent, Minn.—J. D. Winter, Sec'y, Minnesota Fruit Growers Assn., 719 S.E. 5th St., Minneapolis, Minn.

Aug. 13-14—Northeast Fruit Tree Rootstock conference biennial meeting, University of Vermont, Burlington.—A. J. Heinicke, Director, Cornell University, Ithaca.

Aug. 17-19—Northern Nut Growers 50th annual meeting, Illinois College, Jacksonville, Ill.—Spencer B. Chase, Sec'y, 2338 Parkview Ave., Knoxville, Tenn.

Aug. 27-30—American Society for Horticultural Sciences tour through southeastern Pennsylvania including visits to orchard areas, fruit farms, and the C. H. Musselman Company apple processing plant.

Aug. 30-Sept. 3—American Institute of Biological Sciences and member biological societies, including American Society for Horticultural Science, annual meetings, Pennsylvania State University, University Park.—R. E. Larson, Chairman, Penn. State Univ., University Park.

Aug. 31-Sept. 1—United Fresh Fruit and Vegetable Association annual Merchandising and Management conference, Drake Hotel, Chicago, Ill.—Association headquarters, 777 14th St., N. W., Washington 5, D.C.

Sept. 14-16—United Fresh Fruit and Vegetable Association annual merchandising and marketing conference, Drake Hotel, Chicago, Ill.—Association headquarters, 777 14th St., N.W., Washington 5, D.C.

Sept. 14-16—Texas Citrus and Vegetable Growers and Shippers meeting, Hotel Statler Hilton, Dallas.—Austin E. Anson, Exec. Vice Pres., 306 East Jackson, Harlingen.

Sept. 16-19—Jackson County Apple Festival, Jackson, Ohio.

Sept. 23-25—Florida Fruit and Vegetable Association meeting, Hotel Fontainebleau, Miami Beach.—Joffre C. David, Sec'y-Treas., Orlando.

Oct. 4-7—National Association of Marketing Officials annual convention, Asheville, N. C., and Atlanta, Ga.—Wm. A. Wunsch, Pres., State College, N. M.

Oct. 15-24—National Apple Week Association, Inc., fall national apple promotion.—National Apple Week Ass'n, Inc., 1302 18th St., N. W., Washington 6, D. C.

Oct. 21-23—National Agricultural Chemicals Association 26th annual meeting, French Lick-Sheraton Hotel, French Lick, Ind.—Lea S. Hitchner, Exec.-Sec'y, 1145 19th St., N. W., Washington 6, D. C.

Oct. 27-29—Florida State Horticultural Society 72nd annual meeting, Everglades Hotel, Miami.—S. John Lynch, Pres., 29800 Newton Rd., Homestead, Fla.

Oct. 27-29—Western Growers Association meeting, Ambassador Hotel, Los Angeles, Calif.—Frank E. Castiglione, Sec'y, 3091 Wilshire Blvd., Los Angeles 5.

JULY, 1959

*hand-thinning
is old-fashioned!*

use

AMID-THIN

(contains naphthylacetamide)



**chemically thins
fruit, eliminates
expensive hand
thinning!**

**improved size and
quality of fruit!**

**can be used early
without injury to
foliage or fruit!**

You get better, more consistent thinning when you use Amid-Thin! And that means you eliminate hand-thinning—one of the most expensive and practically impossible chores in orchard operation today.

Used safely, *without injury to foliage or fruit*, Amid-Thin helps induce shoot growth, larger fruit because of leaf-fruit ratio more favorable to fruit and bud formation for the following year. And its wide range of safety at concentrations needed for thinning reduces chance of overthinning as compared to other commercial chemicals.

Commercial orchards have proved Amid-Thin's economy and effectiveness over the past four years. For bigger, better, more saleable fruit—try Amid-Thin!



PEACH-THIN 322

A chemical developed exclusively for peach thinning, Peach-Thin 322 incorporates the same advantages for peach growers as Amid-Thin... less labor, earlier thinning and better quality fruit that brings a better market price. Peach-Thin 322 has been used successfully in the field by commercial growers for two years. Write for complete details.



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Cream of the '59 crop CHEVY

Harvest hauls are bound to be more profitable with Chevrolet's bright new might on the job. Here are just a few of the reasons why you can depend on Chevy to hustle you to market right on time, every time, and to save you money all along the way.

New, thriftier 6's and economical V8's. Chevrolet engines squeeze the last penny's worth of power out of every dollar's worth of gas! The new Thriftmaster 6, for example, cuts fuel costs by up to 10% with a new economy-contoured camshaft. And Chevrolet V8's are extra-efficient cost-cutters, too, with the shortest piston stroke of any comparable truck V8 on the market!

Dependable, tough-built chassis. Moving big harvest loads to market right on time calls for trucks with real stamina; tough trucks that can keep going around the clock, on the road or in the fields. That's Chevy's kind of stamina, the result of extra ruggedness engineered into every component. You get a brawny frame of premium steel, extra big brakes, high-capacity axles and springs, smooth Synchro-Mesh transmissions, and solid Unitized cab construction that stands up to jounces and jolts.

Extra payload capacity. Any Chevy, from the Stepside and Fleetside pickups to the big-tonnage heavyweights, is built to haul bigger payloads at lower cost. For example, new Fleetside bodies offer 50% more payload space than conventional bodies.

It's this ability to haul more, save more, and last longer that makes Chevrolet the cream of the truck crop for '59. So, next time you're in town, stop in and see your Chevrolet dealer. He'll be glad to show you the model that can make your harvest hauls more profitable. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

NO JOB'S TOO TOUGH
FOR A
CHEVROLET
TRUCK!



BUYER'S GUIDE.... FOR THE FRUIT FARM

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In ILLINOIS, Write . . . Harry E. Skinner Co., 1949 N. Kenmore Ave., Chicago 14 Cots, Bunks, Mattresses, Blankets, Tents, Oil Heaters, Nets, Fire Hose for Irrigating (low cost), Decontaminating Sprayers (back type), Face Shields and Masks, Hand Augers, Tarpaulins. Sho-Off Orchards Products Co., 105 N.E. Washington St., Peoria Sprayers, Irrigation Equipment, Fruit Sizers, Power Pruners, Steel Squirrels, Travel Towers, Ladders, Picking Bags, Fungicides and Insecticides.

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In MASSACHUSETTS, Write . . . James H. Cookman Co., Route 9 at Route 85, Southborough Complete Line of Pruning and Forestry Tools.

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In MICHIGAN, Write . . . Cardinal & Ellis, Telephone 49, Belding Graders, Washers, Waxers, Conveyors Millburg Growers Exchange, Millburg Station, Benton Harbor New and Used Speedsprayers, High Pressure Sprayers, Blackwelder Steel Squirrels and Fork Lift Attachments, Fertilizers and Spray Materials. Berrien Springs Co-op. Fruit Ass'n, Berrien Springs Farm Supplies, Apples and Peaches. E-Z-Flo Chemical Co., P.O. Box 808, Lansing Complete Line of Orchard Chemicals. Michigan Orchard Supply Company, South Haven, Phone 252 Irrigation Equipment, Lift Trucks, Sprayers, Guns, Ladders, Picking Bags, Tre-Hoe, Graders, Power Pruners, Tractor Lifts, Packaging Equipment and Frost Protection. Shane Orchard Supplies, Corner M140 & Territorial, Watervliet Hardie Sprayers, Sales, Parts and Service

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In MISSOURI, Write . . . Hunt Supply Co., 210 South Third Street, St. Joseph Lett's Box & Mfg. Co., Inc., 1802-22 South 4th Street, St. Joseph, Phone AD 3-2523 Field Crates, Bin Boxes and Pallets.

I	
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In NEW ENGLAND, Write . . .
The Hubbard-Hall Chemical Co.,
Waterbury, Conn., Plaza 6-5521
 Insecticides, Fungicides, Fertilizers, Fumi-
 gants, Picking Bags, Weed Killers.

Naphthylphthalamic Acid	29
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In NEW YORK, Write . . .
John Bacon Corporation, Gasport
 Orchardkraft Air Powered Pruners, Fruit
 Picking Bags and Lobee and Orchardkraft
 Weed Sprayers.

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In OHIO, Write . . .

**Letherman's, Inc., 501 McKinley Avenue,
 N. W., Canton 2**

Complete Line of Seeds and Spray Materials
**The D. R. Van Atta Seed & Implement
 Co., 3210 Spring Grove Ave., Opposite
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 Aukerman, South Vienna—Phone
 LOcust 8-4322**

Ohio Distributors for "Friend", "Trescott",
 "Market-Maker" Graders, Baggers and Con-
 veyors.

R	
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In PENNSYLVANIA, Write . . .

**Adams County Fruit Packing & Distributing
 Co., Inc., Biglerville**

John Bean "Speed Sprayers" and High
 Pressure Outfits, "FMC" Packing House
 Equipment, Shur-Rane Irrigation, Case Trac-
 tors and Implements, Miller-Robinson Prun-
 ers, Trump Towers, Picking Ladders, Tools,
 Insecticides and Fungicides, Fruit Packages
 and Packing Supplies, Bulk Box Dumpers,
 etc.

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 280 shop or 277 residence**

Friend Sprayers, Air Type or High Pres-
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 and Vegetable Washers and Waxers, The
 BES-BLO Sprayer Sales and Service, Lo-
 bee and Mayrath Weed Sprayers.

Tyson Orchard Service, Flora Dale

Complete Line of Tools, Equipment and
 Chemicals for the Orchard.

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Complete Irrigation Equipment, Hahn Hi-
 Boy Spraying Equipment, Fruit & Vegetable
 Grading Equipment.

**Wayne R. Wyant, Farm & Industrial
 Equipment, New Bethlehem, Phone
 BR 5-4945**

Woods Rotary Cutters, Rose Tre-Hoe, Hen-
 derson Fork Lift, Loaders and Blades for
 Crawler Tractors, Pre-Fab Buildings, 20 ft.
 to 60 ft. clear span.

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Tillers, Rotary Garden, Rotary Self- Propelled, Rotary Tractor P.T.O.	46-47
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In OREGON, Write . . .

**Columbia Ladder Co., 1509 S. E. Powell
 Blvd., Portland 2**

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In WASHINGTON, Write . . .

**Wells & Wade Hardware, P.O. Box 1161
 Wenatchee**

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ORCHARD CHEMICALS

INSECTICIDES

ALDRIN—DIELDRIN

Associated Chemists, Agr. Chem. Div., North Collins, N.Y.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N.J.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N.J.
Chipman Chemical Co., Inc., Bound Brook, N.J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N.J.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Olin Mathieson Chemical Corp., Plant Food Div., P.O. Box 991, Little Rock, Ark.
Panogen Co., Div. of Morton Chemical Co., 110 N. Wacker Dr., Chicago 6, Ill.
S. B. Penick & Co., 100 Church St., New York 8, N.Y.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Pittsburgh Coke & Chemical Co., 2000 Grant Bldg., Pittsburgh 19, Pa.
Shell Chemical Corp., 460 Park Ave., New York, N.Y.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland, Ohio
Stauffer Chemical Co., 380 Madison Ave., N.Y. 17, N.Y.; 636 California St., San Francisco 8, Calif.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 2727 W. Hyperion, Los Angeles, Calif.
Thompson-Hayward Chemical Co., 2915 Southwest Ave., Kansas City, Mo.
Woolfolk Chemical Works, Ltd., Fort Valley, Ga.

*ARAMITE

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N.J.
Chipman Chemical Co., Inc., Bound Brook, N.J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N.J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Naugetuck Chemical Div., U. S. Rubber Co., Naugetuck, Conn.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Stauffer Chemical Co., 380 Madison Ave., N.Y. 17, N.Y.; 636 California St., San Francisco 8, Calif.
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City, Mo.

BENZENE HEXACHLORIDE, LINDANE

Associated Chemists, Inc., Agri. Chemicals Div., North Collins, N.Y.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N.J.
Central Chemical Corp., Hagerstown, Md.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N.J.
Chipman Chemical Co., Inc., Bound Brook, N.J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N.J.
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Olin Mathieson Chemical Corp., Plant Food Div., P.O. Box 991, Little Rock, Ark.
S. B. Penick & Co., 100 Church St., New York 8, N.Y.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Pittsburgh Coke & Chemical Co., 2000 Grant Bldg., Pittsburgh 19, Pa.
B. G. Pratt Co., 204 21st Ave., Paterson, N.J.
Stauffer Chemical Co., 380 Madison Ave., N.Y. 17, N.Y.; 636 California St., San Francisco 8, Calif.
Swift & Co., Agricultural Chemical Div., Winter Haven, Fla.

JULY, 1959

Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 2727 W. Hyperion, Los Angeles, Calif.

CHLORDANE

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N.J.
Central Chemical Corp., Hagerstown, Md.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N.J.
Chipman Chemical Co., Inc., Bound Brook, N.J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N.J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Naugetuck Chemical Div., U. S. Rubber Co., Naugetuck, Conn.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Olin Mathieson Chemical Corp., Plant Food Div., P.O. Box 991, Little Rock, Ark.
S. B. Penick & Co., 100 Church St., New York 8, N.Y.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Pittsburgh Coke & Chemical Co., 2000 Grant Bldg., Pittsburgh 19, Pa.
B. G. Pratt Co., 204 21st Ave., Paterson, N.J.
Sennewald Drug Co., 2723 Chouteau Ave., St. Louis, Mo.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio
Stauffer Chemical Co., 380 Madison Ave., N.Y. 17, N.Y.; 636 California St., San Francisco 8, Calif.
Yards, Chicago 9, Ill.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 2727 W. Hyperion, Los Angeles, Calif.
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City, Mo.
Woolfolk Chemical Works, Ltd., Fort Valley, Ga.

*CHLOROBENZILATE

Florist Products, 1843 Oakton, Des Plaines, Ill.
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., P. O. Box 430, Yonkers, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.

CHLOROBENZILATE®

MITICIDE

IS THE OUTSTANDING MITICIDE FOR EFFECTIVE, ECONOMICAL CONTROL OF MITES ATTACKING APPLES AND PEARS.

CRYOLITE

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N.J.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Stauffer Chemical Co., 380 Madison Ave., N.Y. 17, N.Y.; 636 California St., San Francisco 8, Calif.

DDD (TDE)

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N.J.
Central Chemical Corp., Hagerstown, Md.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N.J.
Chipman Chemical Co., Inc., Bound Brook, N.J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Rohm & Haas Co., 222 W. Washington Sq., Philadelphia 5, Pa.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio
Stauffer Chemical Co., 380 Madison Ave., N.Y. 17, N.Y.; 636 California St., San Francisco 8, Calif.
Swift & Co., Agricultural Chemical Div., Winter Haven, Fla.
Thompson-Hayward Chem. Co., 2915 Southwest Ave., Kansas City, Mo.
Wilson & Toomer Fertilizer Co., Jacksonville, Fla.
Woolfolk Chemical Works, Ltd., Ft. Valley, Ga.

DDT

Associated Chemists, Inc., Agri. Chemicals Div., North Collins, N.Y.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N.J.
Central Chemical Corp., Hagerstown, Md.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N.J.
Chipman Chemical Co., Inc., Bound Brook, N.J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N.J.
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., P. O. Box 430, Yonkers, N.Y.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Olin Mathieson Chemical Corp., Insecticide Products Dept., Mathieson Bldg., Baltimore 3, Md.
S. B. Penick & Co., 100 Church St., New York 8, N.Y.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Pittsburgh Coke & Chemical Co., 2000 Grant Bldg., Pittsburgh 19, Pa.
B. G. Pratt Co., 204 21st Ave., Paterson, N.J.
Shell Chemical Corp., 460 Park Ave., New York, N.Y.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio
Stauffer Chemical Co., 380 Madison Ave., N.Y. 17, N.Y.; 636 California St., San Francisco 8, Calif.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill.
Woolfolk Chemical Works, Ltd., Ft. Valley, Ga.

DEMETON

Chemagro Corp., 437 Fifth Ave., New York, N.Y.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Stauffer Chemical Co., 380 Madison Ave., New York, N.Y.

*DIAZINON

Florist Products, 1843 Oakton, Des Plaines, Ill.
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., P. O. Box 430, Yonkers, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers St., Portland 1, Ore.

DIAZINON®

INSECTICIDE

CONTROLS A WIDE VARIETY OF INSECT PESTS ON MANY FRUIT CROPS.

DINITROS

Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N.J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N.J.
Dow Chemical Co., Agricultural Chemicals Dept., Midland, Mich.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio
Standard Agricultural Chemicals, Inc., 1301 Adams St., Hoboken, N.J.

*Company's brand name.

NOW...INSECTS ARE EASIER TO CONTROL THAN EVER BEFORE



Powerful new CRAG SEVIN insecticide simplifies your spray program, by providing positive one-product control of major fruit insects, including those resistant to other insecticides.

Developed by years of research, SEVIN is a new kind of insecticide, not at all like other commonly-used products. It offers you a unique and superior combination of advantages.

Resistant codling moth and other hard-to-kill insects are easy to control with normal strength applications of SEVIN.

SEVIN has long-lasting residual effect! Tests by growers and experiment stations prove that SEVIN is a highly potent and persistent insect killer.

WHEN INSECTS ATTACK... SOCK 'EM WITH SEVIN

INSECTICIDE

APPLES and PEARS

SEVIN provides powerful protection for apples and pears by highly-effective control of resistant and non-resistant insects. Use SEVIN to control -

CODLING MOTH
PEAR PSYLLA
APPLE MAGGOT
GREEN APPLE APHID
RED-BANDED LEAF ROLLER
PLUM CURCULIO
FRUIT TREE LEAF ROLLER
PERIODICAL CICADA
ROSY APPLE APHID

PEACHES

Insect control without a residue problem makes SEVIN the preferred insecticide for peaches when applied according to label instructions. Use SEVIN from petal fall until harvest to control -

PEACH TWIG BORER
ORIENTAL FRUIT MOTH
CAT-FACING INSECTS
PLUM CURCULIO
PERIODICAL CICADA

GRAPES

SEVIN brings new safety and simplicity to grape spray and dust schedules. It controls major grape insects and combines well with sulfur. When label instructions are followed, SEVIN can be used safely up to day of harvest to control -

GRAPE LEAFHOPPERS
GRAPE LEAF FOLDER
GRAPE BERRY MOTH

SEVIN is easy to use with safety. Tests indicate that SEVIN is safer to handle than DDT. No masks or protective clothing are needed. Precautions are simple and easy to follow.

SEVIN can be used very close to harvest. When label instructions are followed, SEVIN can be used up to the day before picking on apples, peaches, pears; up to day of harvest on grapes. Fruit finish is excellent with SEVIN.

SEVIN is compatible with miticides, fungicides and other spray and dust materials, with the exception of alkalies such as lime. Get better control of insects - SOCK 'EM with SEVIN!

Get SEVIN Today! SEVIN gives you an unmatched combination of advantages: Simplifies sprays by controlling major insect pests. Knocks out resistant strains of insects. Provides a high degree of safety in use, even close to harvest. Affords long-lasting residual control. Yes, with all these benefits - you can't afford *not* to use SEVIN! See your supplier today for CRAG SEVIN 50W insecticide!

**Union Carbide
 Chemicals Company**

Division of Union Carbide Corporation
 30 East 42nd Street • New York 17, New York



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NOW!

Sprays Last Longer!

with Revolutionary New

PLYAC*

Spreader-Sticker

Here's important news about Plyac—Allied Chemical's totally new liquid spreader-sticker made with A-C® polyethylene.

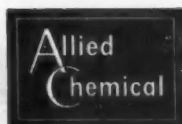
With Plyac, fungicides and insecticides work more effectively. They stick better and last longer—even in rainy weather when other sprays wash off easily.

Plyac also reduces the amount of re-spraying necessary because it prolongs pesticide action and stretches the time between sprays.

Plyac comes in convenient liquid form—easy to measure and easy to add. There's no mess, no fuss. Only 2 to 4 ounces are usually required for each hundred gallons of spray mixture.

Write today for further information about Plyac—the new and far superior spreader-sticker made with A-C® polyethylene.

*Trademark of Allied Chemical Corporation



GENERAL CHEMICAL DIVISION

40 Rector Street, New York 6, N. Y.

INSECTICIDES

ENDRIN

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Olin Mathieson Chemical Corp., Insecticide Products Dept., Mathieson Bldg., Baltimore 3, Md.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Shell Chemical Corp., 460 Park Ave., New York, N. Y.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.
Velsicol Chemical Corp., 330 E. Grand Ave., Chicago 11, Ill.

EPN

E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.

ETHION

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.

*GENITE EM-923

General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.

*GUTHION

Chemagro Corp., 437 Fifth Ave., New York 16, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.

*KELTHANE

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Rohm & Haas Co., Washington Sq., Philadelphia 5, Pa.

MALATHION

American Cyanamid Co., Agricultural Div., 30 Rockefeller Plaza, N. Y. 20, N. Y.
California Spray-Chemical Corp., Richmond, Calif.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Olin Mathieson Chemical Corp., Insecticide Products Dept., Mathieson Bldg., Baltimore 3, Md.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
B. G. Pratt Co., 204 21st Ave., Paterson, N. J.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill.

GEIGY METHOXYCHLOR

INSECTICIDE

"GENERAL PURPOSE" INSECTICIDE FOR CONTROL OF CODLING MOTH, PLUM CURCULIO, GRAPE BERRY MOTH, CHERRY FRUIT FLY AND OTHER INSECTS ATTACKING FRUIT.

Safe • Residual • Effective

METHOXYCHLOR

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., P.O. Box 430, Yonkers, N. Y.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.

NICOTINE

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Central Chemical Corp., Hagerstown, Md.
Florist Products, 1843 Oakton, Des Plaines, Ill.

General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Phillips Bros. Chemicals, Inc., 37 Wall St., N. Y. 5, N. Y.
B. G. Pratt Co., 204 21st Ave., Paterson, N. J.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio

OILS

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California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
B. G. Pratt Co., 204 21st Ave., Paterson, N. J.
Shell Chemical Corp., 460 Park Ave., New York, N. Y.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio
Standard Agricultural Chemicals, Inc., Hoboken, N. J.
Stauffer Chemical Co., 2009 Orient Rd., Tampa, Fla.
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.

OVEX

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Pittsburgh Plate Glass Co., 2200 Grant Bldg., Pittsburgh 19, Pa.
Stauffer Chemical Co., 380 Madison Avenue, New York 17, N. Y.; 636 California St., San Francisco 8, Calif.

PARATHION

American Cyanamid Co., Agricultural Div., 30 Rockefeller Plaza, N. Y. 20, N. Y.
American Potash & Chemical Corp., 3100 E. 26th St., Los Angeles 23, Calif.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chemagro Corp., 437 Fifth Ave., New York, N. Y.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Olin Mathieson Chemical Corp., Plant Food Division, P.O. Box 991, Little Rock, Ark.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Pittsburgh Coke & Chemical Co., 2000 Grant Bldg., Pittsburgh 19, Pa.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill.
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City, Mo.

*PERTHANE

California Spray-Chemical Corp., Richmond, Calif.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Rohm & Haas Co., Washington Sq., Philadelphia 5, Pa.

PYRETHRUM & ROTENONE

American Agricultural Chemical Co.; 50 Church St., N. Y. 7, N. Y.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
S. B. Penick & Co., 100 Church St., New York 8, N. Y.
B. G. Pratt Co., 204 21st Ave., Paterson, N. J.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill.
Thompson Chemicals Corp., 3028 Locust St., St. Louis, Mo.; 2727 W. Hyperion, Los Angeles, Calif.

*Company's brand name.

AMERICAN FRUIT GROWER



August 27th



August 30th

You can spray most fruits with malathion up to 72 hours from harvest without exceeding residue tolerances established by law.

FRUIT	apples	cherries	plums & prunes	peaches	pears	berries
INTERVAL days between last spray and harvest	3	3	3	7	1	1

JULY, 1959



INSECTICIDES

RYANIA

Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
S. B. Penick & Co., 100 Church St., New York 8, N. Y.

*SEVIN

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Union Carbide Chemicals Co., CRAG Agricultural Chemicals, 180 S. Broadway, White Plains, N. Y.

SPREADERS, STICKERS

Colloidal Products Corp., 100 Gate 5 Road, Sausalito, Calif.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Rehm & Haas Co., Washington Square, Philadelphia 5, Pa.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio
Stauffer Chemical Co., 636 California St., San Francisco 8, Calif.

TETRAETHYL PYROPHOSPHATE

American Potash & Chemical Corp., 3100 E. 26th St., Los Angeles 23, Calif.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Central Chemical Corp., Hagerstown, Md.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
Diamond Black Leaf Co., 300 Union Commerce Bldg., Cleveland 14, Ohio
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.
Woolfolk Chemical Works, Ltd., Ft. Valley, Ga.

*THIODAN

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.

TOXAPHENE

American Potash & Chemical Corp., 3100 E. 26th St., Los Angeles 23, Calif.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Central Chemical Corp., Hagerstown, Md.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Hercules Powder Co., Inc., 900 Market St., Wilmington, Del.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Olin Mathieson Chemical Corp., Plant Food Division, P.O. Box 991, Little Rock, Ark.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 2727 W. Hyperion, Los Angeles, Calif.
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City, Mo.
Woolfolk Chemical Works, Ltd., Fort Valley, Ga.

*TRITHION

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Stauffer Chemical Co., 380 Madison Ave., New York, N. Y.; 636 California St., San Francisco 8, Calif.

ZINC SULFATE

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.

*Company's brand name.

Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
E. I. duPont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Harshaw Chemical Co., 1954 E. 97th St., Cleveland 6, Ohio
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Philipp Bros. Chemicals, Inc., 37 Wall St., N. Y. 5, N. Y.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio
Tennessee Corp., 619 Grant Bldg., Atlanta 1, Ga.
Virginia Smelting Co., West Norfolk, Va.
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on pages 15 and 16

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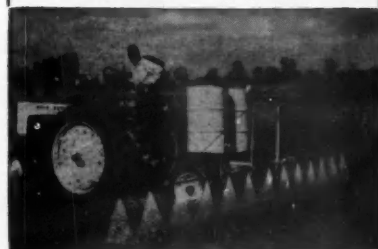
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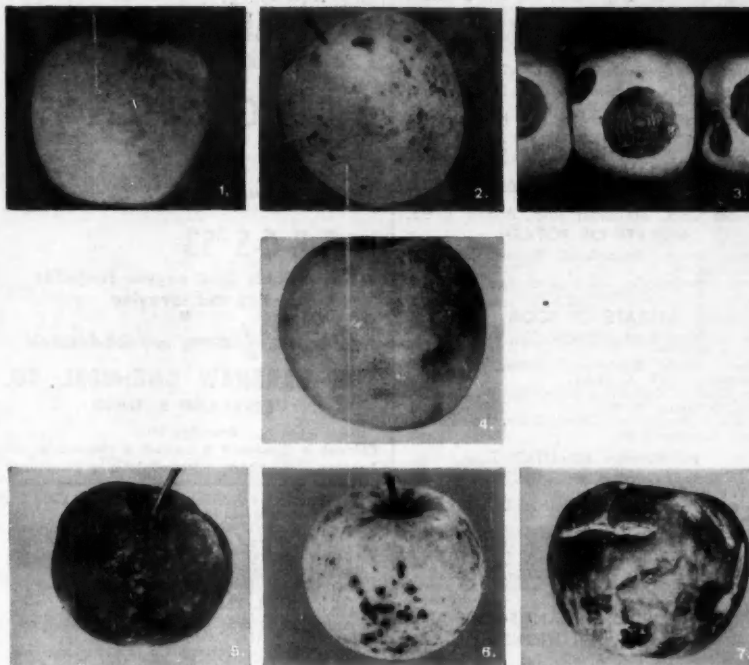
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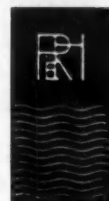


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202 Twenty-First Ave., Paterson, N. J.

SCALECIDE

Kills scale, aphids, red mite, and many other pests as a dormant spray.

PARA-SCALECIDE

Controls Peach Borers and other borers.

PRATT'S 72% CHLORDANE

Stops termites before they get in. Kills ants.

PRATT'S SPRAY FOR EVERGREENS

Controls insects on evergreens, shade trees, ornamentals.

PRATT'S LIQUID ROSE SPRAY

Controls insects and fungus on roses and flowers.

PRATT'S FRUIT TREE SPRAY

Controls insects and diseases.

SULFUR

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Central Chemical Corp., Hagerstown, Md.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Koppers Co., Inc., Koppers Bldg., Pittsburgh 19, Pa.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.; 636 California St., San Francisco 8, Calif.
Woolfolk Chemical Works, Ltd., Ft. Valley, Ga.

SUPERPHOSPHATE

American Agricultural Chemical Co., 50 Church St., N. Y. 7, N. Y.
Armour Fertilizer Works, 350 Hurt Bldg., Atlanta, Ga.
Central Chemical Corp., Hagerstown, Md.
Cominco Products, Inc., 933 W. 3rd Ave., Spokane 4, Wash.
Davison Chemical Co., Div. of W. R. Grace & Co., 101 N. Charles St., Baltimore 3, Md.
Farmers Fertilizer Co., Columbus, Ohio
Federal Chemical Co., Starks Bldg., Louisville, Ky.
International Minerals & Chemical Corp., Skokie, Ill.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Phillips Bros. Chemicals, Inc., 37 Wall St., N. Y. 5, N. Y.
Stauffer Chemical Co., 636 California St., San Francisco 8, Calif.
Summers Fertilizer Co., Inc., McKeesport, Pa.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill.
Tennessee Corp., 619 Grant Bldg., Atlanta, Ga.

UREA

Allied Chemical Corp., Nitrogen Div., 40 Rector St., N. Y. 6, N. Y.
American Cyanamid Co., Agricultural Div., 30 Rockefeller Plaza, New York 20, N. Y.
E. I. du Pont de Nemours & Co., Polychemicals Dept., Wilmington, Del.
Grace Chemical Co., 501 Edway Bldg., Memphis 1, Tenn.
Grand River Chemical Div., Deere & Co., Pryor, Okla.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.

WEED KILLERS

AMINO TRIAZOLE

Amchem Products, Inc., Ambler, Pa.
American Cyanamid Co., Agricultural Div., 30 Rockefeller Plaza, N. Y. 20, N. Y.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Olin Mathieson Chemical Corp., P.O. Box 991, Little Rock, Ark.

AMMONIUM SULFAMATE

E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.

CDAA (*RANDOX)

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.

CDEC (*VEGEDEX)

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.

CET (*SIMAZINE)

Geigy Agricultural Chemicals Div., Geigy Chemical Corp., P.O. Box 430, Yonkers, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.

CHLORO IPC

Columbia-Southern Chem. Co., Sub. Pittsburgh Plate Glass Co., One Gateway Center, Pittsburgh 22, Pa.
Florist Products, 1843 Oakton, Des Plaines, Ill.

CYANAMID AND CYANATE

American Cyanamid Co., Agricultural Div., 30 Rockefeller Plaza, N. Y. 20, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.

DALAPON (*DOWPON)

Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.

AMERICAN FRUIT GROWER



Tailor-Made for Fruit!

New

Agricultural Grade

Grace Crystal Urea

Fertilizer Compound

low biuret

(Less than 0.2%)

and completely water soluble!

1. Safe! Especially Formulated for Foliar Application.
2. Makes Possible Maximum Yields and Top Quality.
3. Saves Time, Labor, Equipment.

The low biuret content of new Grace Crystal Urea gives you concentrated nitrogen (46%) that's *completely safe* for foliar application.

The nitrogen in Grace Crystal Urea is *immediately* available to plants, and the nitrogen goes to work almost at once. Supplying this *extra* nitrogen in this easy way gives you maximum yields *and* top quality.

Response in terms of improved foliage, color or growth may be seen within a few days after spraying. Even when

soil conditions are poor—for example, when there is excessive dryness, wetness, cold, or leaching from heavy rains—response from foliar feeding with Grace Crystal Urea is good—and fast.

Grace Crystal Urea can be added to your regular insecticides or fungicide formulations and sprayed at the same time you apply these materials. You do two jobs at once, which frees men and equipment for other work.

Grace Crystal Urea is compatible with commonly used spray materials. The crystals dissolve readily and completely, won't clog spray hoses, valves or nozzles. Solutions of Grace Crystal Urea are non-corrosive—won't harm rubber, metal or wood.

FOR SOIL APPLICATION use free-flowing Grace Urea Prills. Guaranteed 45% Nitrogen. Ideal for Top-Dressing or Side-Dressing of fruits and vegetables, as well as field crops.

Grace Chemical Company *A Division of W. R. Grace & Co.*

MEMPHIS, TENNESSEE

MH RUNNER CONTROL

FOR STRAWBERRIES THAT SELL...IT'S CONTROLLED RUNNERS

Strawberry plants produce no extra runners—and there's no overcrowding—if you use a light spray of MH. No overcrowding means 30% more early berries in many instances. MH avoids the expensive job of hand thinning the runners. There is no effect on strawberry flavor or color. Market acceptability is higher. Easy to apply, and very inexpensive. Order MH from your local supplier today. Write, wire or phone us if unable to locate immediate source of supply.



United States Rubber

Naugatuck Chemical Division

753B Elm Street, Naugatuck, Connecticut

producers of seed protectants, fungicides, miticides, insecticides, growth retardants, herbicides: Sporgon, Phygon, Aramite, Synklor, MH, Alanap, Duraset.

WEED KILLERS

DINITRO BUTYL PHENOL

California Spray-Chemical Corp., Richmond, Calif.;
Haddonfield, N. J.
Dow Chemical Co., Agricultural Chemicals Div.,
Midland, Mich.
General Chemical Div., Allied Chemical Corp., 40
Rector St., New York 6, N. Y.
Standard Agricultural Chemicals, Inc., 1301 Adams
St., Hoboken, N. J.

DIURON (*KARMEX DW)

E. I. du Pont de Nemours & Co., Wilmington 98, Del.

ENDOTHAL

Pennsalt of Wash. Div., 2901 Taylor Way, Tacoma 2, Wash.

EPTC (*EPTAM)

Florist Products, 1843 Oakton, Des Plaines, Ill.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp.
Lane, Baltimore 15, Md.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.

ERBON

Dow Chemical Co., Midland, Mich.

FENURON

E. I. du Pont de Nemours & Co., Wilmington 98, Del.

HCA

General Chemical Div., Allied Chemical Corp., 40
Rector St., New York 6, N. Y.

MALEIC HYDRAZIDE

General Chemical Div., Allied Chemical Corp., 40
Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp.
Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S.W. Caruthers, Port-
land 1, Ore.
Naugatuck Chemical Div., U. S. Rubber Co.,
Naugatuck, Conn.
Pennsalt of Washington Div., 2901 Taylor Way, Ta-
coma 2, Wash.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17,
N. Y., 636 California St., San Francisco 8, Calif.

MONURON

E. I. du Pont de Nemours & Co., Wilmington 98, Del.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp.
Lane, Baltimore 15, Md.

MULCH

BLACK PLASTIC

American Associated Cos., Red Bank, N. J.
Benson-Maclean, Bridgeton, Ind.
Central States Paper and Bag Co., Inc., 5221 Natural
Bridge, St. Louis 15, Mo.
Chester Packaging Div., St. Regis Paper Co., 150 E.
42nd St., N. Y., N. Y.
Cincinnati Cordage & Paper Co., E. Wayne & Scott
St., Lima, Ohio
Dac Corporation, Terre Haute, Ind.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Gering Products Inc., Kenilworth, N. J.
Glick Twins, Pharr, Texas
Peter & Co., 3618 Lexington Rd., St. Matthews, Ky.
Rough Brothers, 4229 Spring Grove Ave., Cincin-
nati 23, Ohio
Sound Screen Supplies, Inc., 752 Broadway, N. Y. 3,
N. Y.

Please consult Alphabetical Index
on pages 15 and 16

NEBURON

E. I. du Pont de Nemours & Co., Wilmington 98, Del.

N P A (ALANAP—3)

General Chemical Div., Allied Chemical Corp., 40
Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp.
Lane, Baltimore 15, Md.
Naugatuck Chemical Div., U. S. Rubber Co.,
Naugatuck, Conn.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17,
N. Y., 636 California St., San Francisco 8, Calif.

PCP (PENTACHLOROPHENOL)

Chemical Insecticide Corp., 30 Whitman Ave.,
Metuchen, N. J.
Dow Chemical Co., Agricultural Chemicals Div.,
Midland, Mich.
General Chemical Div., Allied Chemical Corp., 40
Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp.
Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Port-
land 1, Ore.
Monsanto Chemical Co., Lindberg & Olive St. Road,
St. Louis 24, Mo.
Pennsalt of Washington Div., 2901 Taylor Way, Ta-
coma 2, Wash.
Stauffer Chemical Co., 380 Madison Ave., N. Y. 17,
N. Y., 636 California St., San Francisco 8, Calif.

*Company's brand name.

AMERICAN FRUIT GROWER

SES

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S.W. Caruthers, Portland 1, Ore.
Union Carbide Chemicals Co., CRAG Agricultural Chemicals, 180 S. Broadway, White Plains, N. Y.

SHEET MULCH APPLICATOR

Engine Parts Mfg. Co., 1360 W. 9th St., Cleveland, Ohio

SILVEX

Dow Chemical Co., Midland, Mich.

SODIUM ARSENITE

Chipman Chemical Co., Inc., Bound Brook, N. J.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Pennsalt of Wash. Div., 2901 Taylor Way, Tacoma 2, Wash.
B. G. Pratt Co., 204 21st Ave., Paterson, N. J.

SODIUM CHLORATE

American Potash & Chemical Corp., 3100 E. 26th St., Los Angeles 23, Calif.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Harshaw Chemical Co., 1945 E. 97th, Cleveland, Ohio
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.

SODIUM SALT OF DINITRO-ORTHO-CRESOL

California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio
Standard Agricultural Chemicals, Inc., 1301 Adams St., Hoboken, N. J.

SUBSTITUTED UREA HERBICIDES

E. I. du Pont de Nemours & Co., Wilmington, Del.

TCA

Associated Chemists, Inc., Agri. Chemicals Div., North Collins, N. Y.
California Spray-Chemical Corp., Richmond, Calif.; Haddonfield, N. J.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
General Chemical Div., Allied Chem. Corp., 40 Rector St., N. Y. 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Standard Agricultural Chemicals, Inc., 1301 Adams St., Hoboken, N. J.
Stauffer Chemical Co., 4111 S. 11th St., Omaha, Nebr.; Box 68, Suttle Rd., North Portland, Ore.

TOMATO DEFOLIANT

Chipman Chemical Co., Inc., Bound Brook, N. J.

TRICHLORO BENZOIC ACID

E. I. du Pont de Nemours & Co., Wilmington 98, Del.

2,4-D and 2,4,5-T

Amchem Products, Inc., Ambler, Pa.
California Spray-Chemicals Corp., Richmond, Calif.; Haddonfield, N. J.
Central Chemical Corp., Hagerstown, Md.
Chemagro Corp., 437 Fifth Ave., N.Y., N.Y.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio
Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., P.O. Box 430, Yonkers, N. Y.
General Chemical Div., Allied Chem. Corp., 40 Rector St., N. Y. 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Olin Mathieson Chemical Corp., P.O. Box 991, Little Rock, Ark.
Pennsalt of Wash. Div., 2901 Taylor Way, Tacoma 2, Wash.
Reasor-Hill Corp., Jacksonville, Ark.
Standard Agricultural Chemicals, Inc., 1301 Adams St., Hoboken, N. J.
Stauffer Chemical Co., 4111 S. 11th St., Omaha, Nebr.; Box 68, Suttle Rd., North Portland, Ore.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill.

*Company's brand name.

SOIL FUMIGANTS

CALCIUM CYANIDE

Merck & Co., Inc., Rahway, N. J.

CHLOROPICRIN

Florist Products, 1843 Oakton, Des Plaines, Ill.
Panogen, Inc., Div. of Morton Chemical Co., 110 N. Wacker Dr., Chicago 6, Ill.

D-D

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Shell Chemical Corp., 460 Park Ave., N. Y., N. Y.

ETHYLENE DIBROMIDE

Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Philipp Bros. Chemicals, Inc., 37 Wall St., N. Y. 5, N. Y.
Union Carbide Chemicals Co., CRAG Agricultural Chemicals, 180 S. Broadway, White Plains, N. Y.

METHYL BROMIDE

Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Michigan Chemical Co., St. Louis, Mich.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Panogen, Inc., Div. of Morton Chemical Co., 110 N. Wacker Dr., Chicago 6, Ill.

*MYLONE

Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Union Carbide Chemicals Co., CRAG Agricultural Chemicals, 180 S. Broadway, White Plains, N. Y.

OXYQUINOLINE COMPOUND (SUNOX)

Midvale Chemical Co., Lodi, N. J.

PARADICHLOROBENZENE

Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
B. G. Pratt Co., 204 21st Ave., Paterson, N. J.

*YAPAM

Stauffer Chemical Co., 380 Madison Ave., N. Y. 17, N. Y.

GROWTH REGULATORS

COLCHICINE

Benson-Maclean, Bridgeton, Ind.

FRUIT THINNING SPRAYS

DINITROS
Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Standard Agricultural Chemicals, Inc., 1301 Adams St., Hoboken, N. J.

NAPHTHALENEACETAMIDE
Amchem Products, Inc., Ambler, Pa.

NAPHTHALENEACETIC ACID
Amchem Products, Inc., Ambler, Pa.
Benson-Maclean, Bridgeton, Ind.
Central Chemical Corp., Hagerstown, Md.
Chipman Chemical Co., Inc., Bound Brook, N. J.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.

Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Ore.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Philipp Bros. Chemicals, Inc., 37 Wall St., N. Y. 5, N. Y.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 3600 Monon St., Los Angeles 27, Calif.
Westville Laboratories, Stepney, Conn.
NAPHTHYLPHTHALAMIC ACID
Amchem Products, Inc., Ambler, Pa.
Chemley Products Co., 5744 N. Western Ave., Chicago 45, Ill.

NIP-A-THIN*

FOR THINNING PEACHES

Recommended by Leading Fruit Specialists and Leading Growers

*Trade Mark CHEMLEY PRODUCTS CO., Chicago, Ill.

GIBBERELIC ACID

Florist Products, 1843 Oakton, Des Plaines, Ill.
Eli Lilly & Co., Agricultural & Industrial Div., Indianapolis 6, Ind.
Merck & Co., Inc., Rahway, N. J.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Chas. Pfizer & Co., Inc., 630 Flushing Ave., Brooklyn 6, N. Y.

GROWTH RETARDERS

MALEIC HYDRAZIDE
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Naugatuck Chemical Div., U. S. Rubber Co., Naugatuck, Conn.
Pennsalt of Washington Div., 2901 Taylor Way, Tacoma 2, Wash.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 2727 W. Hyperion, Los Angeles, Calif.
Woolfolk Chemical Works, Ltd., Fort Valley, Ga.

NXY (For Berries)

Science Products Co., 1230 E. 63rd St., Chicago 37, Ill.

STOP DROP SPRAYS AND DUSTS

NAPHTHALENEACETIC ACID
See FRUIT THINNING SPRAYS

2,4,5-TA
Amchem Products, Inc., Ambler, Pa.

2,4,5-TP
Amchem Products, Inc., Ambler, Pa.
Dow Chemical Co., Agricultural Chemicals Div., Midland, Mich.
General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, N. Y.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 3600 Monon St., Los Angeles 27, Calif.
Westville Laboratories, Stepney, Conn.

TOMATO HORMONE SPRAY

Benson-Maclean, Bridgeton, Ind.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., Ft. of S. W. Caruthers St., Portland 1, Ore.
Naugatuck Chemical Div., U. S. Rubber Co., Naugatuck, Conn.
Science Products Co., 1230 E. 63rd St., Chicago 37, Ill.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 2727 W. Hyperion, Los Angeles, Calif.

TRANSPLANT HORMONES

Amchem Products, Inc., Ambler, Pa.
Benson-Maclean, Bridgeton, Ind.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 2727 W. Hyperion, Los Angeles, Calif.

2,4-D & 2,4,5-T

See WEED KILLERS

SPRAY COMPATIBILITY CHART

The all new 1959 chart for only 35c. Available also, the companion Spray Safety Chart. Order both charts now—a 70c value for only 60c.

AMERICAN FRUIT GROWER
Willoughby, Ohio

THE NEWER ORGANIC PESTICIDES

With Some Commonly Known Brand Names

PESTICIDE AND BRAND NAMES	COMPANY	PESTICIDE AND BRAND NAMES	COMPANY	PESTICIDE AND BRAND NAMES	COMPANY
ALDRIN		DDT		FENSON	
Aldrin	Shell Chemical	Chipman DDT	Chipman Chemical	Penco Fenson	Pennsalt Chemicals
Chipman Aldrin	Chipman Chemical	Corona 50-50 W	Pittsburgh Plate Glass	FERBAM	
Corona Aldrin	Pittsburgh Plate Glass	DDTol	Sherwin-Williams	Carbamate	Niagara
Drinox	Panogen	Deenate	DuPont	Chipman Ferbam 76	Chipman Chemical
Niagara Aldrin	Niagara	Geigy DDT	Geigy	Coromate	Pittsburgh Plate Glass
Orchard Brand Aldrin	General Chemical	Genitox	General Chemical	Fermate	DuPont
Ortho Aldrin	Calif. Spray-Chemical	Monsanto DDT	Monsanto	Karlam Black	Sherwin-Williams
Penco Aldrin	Pennsalt Chemicals	Niatox	Niagara	Ortho Ferbam	Calif. Spray-Chemical
Security Brand Aldrin	Woolfolk	Orchard Brand DDT	General Chemical	Orchard Brand Ferbam	General Chemical
Stauffer Aldrin	Stauffer	Penco DDT	Pennsalt Chemicals	Security Brand Ferbam	Woolfolk
ANTIBIOTICS		Ortho DDT	Calif. Spray-Chemical	Stauffer Ferbam	Stauffer
Actidione		Pratts DDT	B. G. Pratt	*GENITE 923	
Actispray	Niagara	Security Brand DDT	Woolfolk	Genite 923	General Chemical
Actispray	Upjohn	Standard DDT	Standard Oil (Ind.)	GLYODIN	
Streptomycin		Stauffer DDT	Stauffer	Crag Glyodin	Union Carbide Chem.
Agri-trep	Merck	DEMETON		Glyoxide Dry	Corona
Agri-trep	Niagara	Systox	Chemagro	*GUTHION	
Phytomycin	Squibb	Systox	Chemical	Guthion	Chemagro
Strepspray	United Heckathorn	Systox	Niagara	HEPTACHLOR	
Streptomycin-Terramycin		Systox	Stauffer	Chipman Heptachlor	Chipman Chemical
Agri-mycin 100	Chas. Pfizer	Systox	Woolfolk	Drinox H-34	Panogen
Agri-mycin 100	Chipman Chemical	*DIAZINON		Heptachlor	Velsicol
Agri-mycin 100	General Chemical	Diazinon	Geigy	Heptaspray	United Heckathorn
Agri-mycin 100 Anti-biotic Dust	Pacific Guano Co. L. H. Butcher Co. Sunland Industries, Inc. United Chemical Co.	DIBROM		Niagara Heptachlor	Niagara
Copper-Streptomycin-Terramycin		Ortho Dibrom	Calif. Spray-Chemical	Orchard Brand Heptachlor	General Chemical
Agri-mycin 500	Chas. Pfizer	DICHLONE		Ortho Heptachlor	Calif. Spray-Chemical
Agri-mycin 500	General Chemical	Corona Phygon-XL	Pittsburgh Plate Glass	Penco Heptachlor	Pennsalt Chemicals
*ARAMITE		Corona Phygon-Sulfur	Niagara	Security Brand Heptachlor	Woolfolk
Aracide	United Heckathorn	Kolo 100	Niagara	Standard Heptachlor	Standard Oil (Ind.)
Aramite	U. S. Rubber	Orchard Brand Phygon-XL	General Chemical	Stauffer Heptachlor	Stauffer
Chipman Aramite	Chipman Chemical	Phygon-XL	U. S. Rubber	*KARATHANE	
Corona Aramite	Pittsburgh Plate Glass	Stauffer Phygon	Stauffer	Karathane	Rohm & Haas
Niagararamite	Niagara	Directory listings will give you names and addresses of additional manufacturers and suppliers of pesticides, herbicides, and soil fumigants. Please refer to Buyer's Guide Index on pages 15 and 16.		Mildex	Larvacide Products
Orchard Brand Aramite	General Chemical	DIELDRIN		*KELTHANE	
Ortho Aramite	Calif. Spray-Chemical	Chipman Dieldrin	Chipman Chemical	Kelthane	Rohm & Haas
Penco Aramite	Pennsalt Chemicals	Corona Dieldrin	Pittsburgh Plate Glass	*KORLAN	
Stauffer Aramite	Stauffer	Niagara Dieldrin	Niagara	Korlan	Dow
B-622		Dieldrin	Shell Chemical	LINDANE	
Dyrene	Chemagro	Orchard Brand Dieldrin	General Chemical	Chipman Lindane	Chipman Chemical
BACILLUS THURINGIENSIS (Microbial Insecticide)		Ortho Dieldrin	Calif. Spray-Chemical	Isotox	Calif. Spray-Chemical
Agritrol	Merck	Panoram D-31	Panogen	Niagara Lindane	Niagara
BAYER 17147		Penco Dieldrin	Pennsalt Chemicals	Orchard Brand Lindane	General Chemical
Guthion	Chemagro	Pratts Dieldrin	B. G. Pratt	Penco Lindane	Pennsalt Chemicals
BHC		Security Brand Dieldrin	Woolfolk	Pratts Lindane Spray	B. G. Pratt
Benzahex	Chipman Chemical	Sherwin-Williams Dieldrin	Sherwin-Williams	Security Brand Lindane	Woolfolk
Benzex	Woolfolk	Standard Dieldrin	Standard Oil (Ind.)	Stauffer Lindane	Stauffer
BHC 10 Spray	Pittsburgh Plate Glass	Stauffer Dieldrin	Stauffer	MALATHION	
Corona BHC	Calif. Spray-Chemical	DINITROS—DORMANT		Chipman Malathion	Chipman Chemical
Isotox	DuPont	Corodinoc	Pittsburgh Plate Glass	Corona Malathion	Pittsburgh Plate Glass
Lintox	Stauffer	Corona Dinitro Powder	Pittsburgh Plate Glass	Malaspray	United Heckathorn
Orchard Brand BHC	General Chemical	Dinitro Dry	Niagara	Malathion Technical	American Cyanamid
Ortho BHC	Calif. Spray-Chemical	Dinitrol	Sherwin-Williams	Malathion 50 Spray	Niagara
Penco BHC	Pennsalt Chemicals	DN Drymix No. 1	Dow	Orchard Brand Malathion	General Chemical
Penco Hi Gamma BHC	Pennsalt Chemicals	DN Drymix No. 2	Dow	Ortho Malathion	Calif. Spray-Chemical
Stauffer BHC	Stauffer	DN-289	Dow	Penco Malathion	Pennsalt Chemicals
CAPTAN		Elgetol	Standard Agri. Chem.	Pratts Malathion Spray	B. G. Pratt
Orthocide	Calif. Spray-Chemical	Elgetol 30	Standard Agri. Chem.	Security Brand Malathion	Woolfolk
Stauffer Captan	Stauffer	Elgetol 318	Standard Agri. Chem.	Sherwin-Williams Malathion	Sherwin-Williams
CHLORANIL		Nitro Vaporol	Calif. Spray-Chemical	Standard Malathion	Standard Oil (Ind.)
Spergon	U. S. Rubber	DINITROS—SUMMER		Stauffer Malathion	Stauffer
CHLORDANE		DN-111	Dow	MANEB	
Chipman Chlordane	Chipman Chemical	*DYRENE		Dithane M-22	Rohm & Haas
Chlor Kil	Niagara	Dyrene	Chemagro	Manzate	DuPont
Corodane	Pittsburgh Plate Glass	ENDRIN		METACIDE	
Ortho Chlordane	Calif. Spray-Chemical	Chipman Endrin	Chipman Chemical	Metacide 50	Chemagro
Ortho-Klor	Calif. Spray-Chemical	Corona Endrin	Pittsburgh Plate Glass	METHOXYCHLOR	
Penco Chlordane	Pennsalt	Endrin	Niagara	Chipman Methoxychlor	Chipman Chemical
Pratts Chlordane	B. G. Pratt	Endrin	Shell Chemical	Corona Methoxychlor	Pittsburgh Plate Glass
Security Brand Chlordane	Woolfolk	Endrin	Velsicol	Geigy Methoxychlor	Geigy
Sherwin-Williams Chlordane	Sherwin-Williams	Orchard Brand Endrin	General Chemical	Marlate	DuPont
Stauffer Chlordane	Stauffer	Ortho Endrin	Calif. Spray-Chemical	Methoxide	Niagara
Synklor	U. S. Rubber	Penco Endrin	Pennsalt Chemicals	Orchard Brand Methoxychlor	General Chemical
CHLOROBENZILATE		Security Brand Endrin	Woolfolk	Ortho Methoxychlor	Calif. Spray-Chemical
Chlorobenzilate	Geigy	Stauffer Endrin	Stauffer	Stauffer Methoxychlor	Stauffer
*CYPREX		EPN		NABAM	
*Cyprex	American Cyanamid	EPN 300	DuPont	Dithane D-14	Rohm & Haas
DDD (TDE)		ETHION		Niagara Nabam Solution	Niagara
Corona Rothane	Pittsburgh Plate Glass	Niagara Ethion	Niagara	Ortho Nabam	Calif. Spray-Chemical
Niagara DDD	Niagara	(Continued on page 32)		Parzate	DuPont
Orchard Brand TDE	General Chemical	AMERICAN FRUIT GROWER		Stauffer Nabam 22	Stauffer
Ortho TDE	Calif. Spray-Chemical				
Rothane	Rohm & Haas				
Rothane	Sherwin-Williams				
Security Brand DDD	Woolfolk				
Stauffer DDD	Stauffer				

*Company's brand name.



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BRAND NAMES

(Continued from page 30)

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ORGANO-MERCURY		
Coromere	Pittsburgh Plate Glass	
Merban 10	Chipman Chemical	
Orchard Brand		
Mercury Spray	General Chemical	
Orchard Brand Puritized		
Agricultural Spray	General Chemical	
Orchard Brand Quinex	General Chemical	
Panogen	Panogen	
Phis	Chemley Products	
Paratized Agricultural		
Spray	Niagara	
Puritized Apple Spray	Niagara	
Stauffer Mer-Cad	Stauffer	
Stauffer Mer-Sol	Stauffer	
Tag	Calif. Spray-Chemical	
OVEX		
Corotran	Pittsburgh Plate Glass	
Mitrax	United Heckathorn	
Niagara	Niagara	
Orchard Brand Ovex	General Chemical	
Orthotran	Calif. Spray-Chemical	
Ovotran	Dow	
Stauffer Ovex	Stauffer	
PARATHION		
Aqua Phos Kil 6	Niagara	
Chemagro Parathion	Chemagro	
Chipman Parathion	Chipman Chemical	
Corothion	Pittsburgh Plate Glass	
Niran	Monsanto	
Orchard Brand		
Parathion	General Chemical	
Ortho Parathion	Calif. Spray-Chemical	
Orthophos	Calif. Spray-Chemical	
Panthion	Woolfolk	
Paradust	Stauffer	
Parawet	United Heckathorn	
Penco Parathion	Pennsalt Chemicals	
Phos Kil	Niagara	
Security Brand		
Parathion	Woolfolk	
Sherwin-Williams		
Parathion	Sherwin-Williams	
Stauffer Parathion	Stauffer	
Thiophos (technical)	American Cyanamid	
PCNB		
Terraclor	Olin-Mathieson	
*PERTHANE		
Perthane	Rohm & Haas	
Ortho Perthane	Calif. Spray-Chemical	
PHALTAN		
Ortho Phaltan	American Cyanamid	
Stauffer Phaltan	Stauffer	
*PHOSDRIN		
Phosdrin	Shell Chemical	
Orchard Brand Phosdrin	General	
Security Brand Phosdrin	Woolfolk	
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*PHOSTEX		
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Crag Sevin	Union Carbide Chem.	
Niagara Sevin	Niagara	
Security Brand Sevin	Woolfolk	
*TEDION		
Tedion	Niagara	
Stauffer Tedion	Stauffer	
Tedion Spray	General Chemical	
TEPP		
Corona TEPP	Pittsburgh Plate Glass	
Niagara TEPP	Niagara	
Orchard Brand TEPP	General Chemical	
Stauffer TEPP	Stauffer	
Vaportone	Calif. Spray-Chemical	
*THIODAN		
Thiodan	Niagara	

*Company's brand name.

PESTICIDE AND BRAND NAMES

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Thylate	DuPont	
Penco Thiram	Pennsalt Chemicals	
TOXAPHENE		
Alltox	Calif. Spray-Chemical	
Chipman Toxaphene	Chipman Chemical	
Geniphene	General Chemical	
Gy-Phene	Geigy	
Orchard Brand		
Toxaphene	General Chemical	
Ortho Toxaphene	Calif. Spray-Chemical	
Penco Toxaphene	Pennsalt Chemicals	
Security Brand		
Toxaphene	Woolfolk	
Stauffer Toxaphene	Stauffer	
Toxakil	Niagara	
*TRITHION		
Stauffer Trithion	Stauffer	
UREA		
NuGreen	DuPont	
ZINEB		
Dithane Z-78	Rohm & Haas	
Ortho Zineb	Calif. Spray-Chemical	
Parzate	DuPont	
Stauffer Zineb	Stauffer	
Zineb	Niagara	
ZIRAM		
Corozate	Pittsburgh Plate Glass	
Karlam White	Sherwin-Williams	
Orchard Brand Ziram	General Chemical	
Ortho Ziram	Calif. Spray-Chemical	
Security Brand Zerlate	Woolfolk	
Stauffer Ziram	Stauffer	
Z-C Spray	Niagara	
Zerlate	DuPont	
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CHLOROPICRIN		
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Picfume	Dow	
DD		
D-D Soil Fumigant	Shell Chemical	
Security Brand DD	Woolfolk	
Stauffer DD	Stauffer	
DIBROMO CHLOROPROPANE		
Fumazone	Dow	
Nemagon	Shell Chemical	
Ortho Nemagon	Calif. Spray-Chemical	
B. G. Pratt Nemagon	B. G. Pratt	
Security Brand		
Nemagon	Woolfolk	
Stauffer Nemagon	Stauffer	
EDB		
Bromofume	American Potash	
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METHYL BROMIDE		
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MC-2	Dow	
*MYLONE		
Mylone	Union Carbide Chem.	
OXYQUINOLINE SULFATE		
Sunox	Midvale	
*VAPAM		
DuPont VPM	DuPont	
Stauffer Vapam	Stauffer	
*VC-13		
VC-13	Virginia-Carolina	

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Weedazol	Amchem Products	
AMMONIUM SULFAMATE		
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CIPC		
Chloro IPC	Columbia-Southern	
DALAPON		
Dowpon	Dow	
DIURON		
Karmex DW	DuPont	
DNBP		
Dow Premerge	Dow	
Sinox PE	Stand. Agr. Chem.	
ENDOTHAL		
Penco Endothal	Pennsalt	
E.P.T.C.		
Eptam	Stauffer	
ERBON		
Novon	Dow	
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Butoxone	Chipman Chemical	
FENURON		
Dybar	DuPont	
HCA		
General Chemical HCA	General Chemical	
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MH-30	Naugatuck Chemical	
MH-30	General Chemical	
Penco MH-30	Pennsalt Chemicals	
Stauffer MH-30	Stauffer	
MH-30	Niagara	
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NEBURON		
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dium Arsenite	General Chemical	
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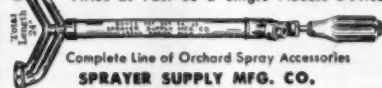
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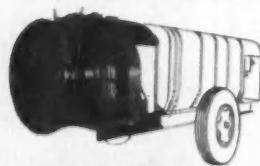
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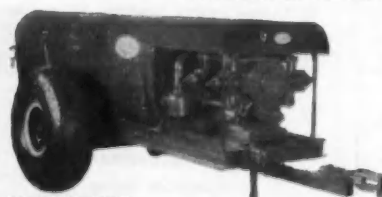
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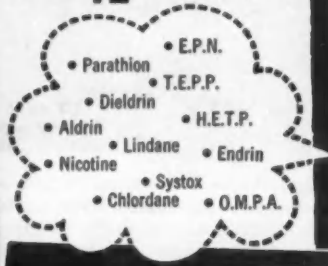
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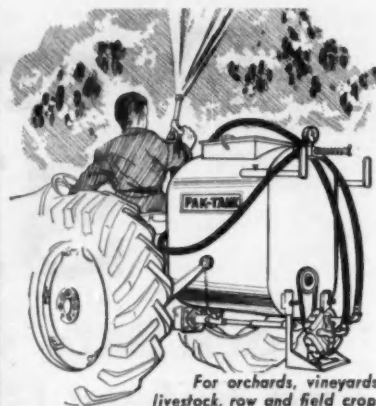
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AMERICAN FRUIT GROWER



State REPORTS

WESTERN EDITION

Give Your Apples T. L. C.*

CCARELESS picking practices can, in a few seconds, undo a year's hard work. On the other hand, by careful and selective picking we can enhance quality and preserve keepability and salability of our apples.

The bulk of today's apples must sell themselves when they reach the retail display stands and are subjected to the whims and fancies of Mrs. Housewife and her impulse buying. For this reason, picking is one of the most critical factors in preparing our apples here at Crane and Crane Orchards, Brewster, Wash., for the consumer. We have two brands, Golden Delicious, called "Blue Line," and Red Delicious, the "Red Line." In picking, we think of condition first, then color. Normally, we go over the trees three times, and often pick four times in adverse years.

We direct our pickers to strive for color, and in so doing we pick the more immature fruit last. We take sunburned fruit from the south side of the trees immediately for early shipping to avoid having it there later when it may become unidentifiable until it breaks down in storage.

Good picking practices combined with quick movement to a storage with adequate capacity to reduce fruit to proper temperatures immediately enabled us to hold our 1958 crop of Red Delicious in prime eating quality for shipment in late May of this year. These apples were grown in a year of record high temperatures in as hot an area as any in the state and in a year when, in some instances, Washington State apples were criticized for poor maturity.

During harvesttime we employ one person whose full-time job is to

*T.L.C.—Tender Loving Care.

inspect and grade the pickers' work. He looks for stem punctures, pulled stems, bruising, spurring, color, windfalls, slack boxes, and apples left on the tree when stripping is economically advisable. Pickers are given an initial warning that windfall picking will not be tolerated and that one windfall in a container is considered grounds for discharge.

A duplicate slip-book system of evaluation is used; yellow slips indicate picking discrepancies and white, a picking grade. The yellow slips are delivered to the picking boss by the inspector before he moves on to another crew. In case of a flagrant violation, the crew boss immediately contacts the picker; the inspector does not see the picker.

The white grade slips are turned in at the office each evening and are recorded with the picker's daily tally. All pickers staying through until the end of the season are given a final grade, and any topping 90% receive a bonus. Ordinarily half of those staying through will qualify. If a picker drops to near 75%, his tickets are inspected to determine the weak factors, such as color, bruises, etc. If he does not improve after due help, he is released.

We do have considerable turnover. Last year from a peak crew of 110, only 30 to 35 were with us at the end of the season. This is the weakest part of our system, but

we have a few ideas yet to explore to improve the situation.

Normally 75 to 80 pickers are adequate for our present operation but last year we took off fewer bushels per day early in the season with the result that we had to increase our crew to a peak of 110 to complete the harvest.

The maximum period from full bloom to harvest for Golden and Red Delicious under our environmental conditions and cultural practices is usually 160 to 162 days. Last year, however, we found that 156 to 158 days was more realistic, due to the record high temperatures which prevailed during the summer.

We have one crew picking Golden Delicious and three crews picking the red varieties. The Golden Delicious pickers or our so-called "Blue Line" crew is formed by selecting the most careful pickers from the red variety crews the first week of picking. These Blue Liners are paid a premium of 2 cents a bushel. With this organization of selective crews, a crew boss seldom has to work more than 16 to 18 rows simultaneously.

Special procedures are followed in the picking of Golden Delicious. All crew members are required to wear soft gloves and are instructed to palm the apple in the same manner as when picking a ripe peach. All containers are lined with paper to avoid rough wood scuffing the surface of the apples and to prevent weed seeds in the bottom of the container from coming into contact with the fruit. Our orchards are not clean cultivated and consequently it is very easy for the bottom layer of fruit to acquire pinpoint punctures from grass and weed seeds.

When growers realize that selective picking, taking fruit at proper maturity regardless of color in a hot season, and closer supervision mean a greater net return to them, we may expect a healthier financial climate for the whole fruit growing industry.—Francis G. Crane, Mgr., Crane and Crane Orchards.



A LIFT FOR APPLES

Moving apples from orchard to packing shed on lift designed by Leslie Reed, Emmett, Idaho.

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BOOKS

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• **Western Fruit Gardening**, by Reid M. Brooks and C. O. Hesse. A handbook for the home gardener in the West on fruit varieties; climatic adaptations; soil, water, and nutrient requirements; pruning and propagation; and control of diseases and pests. 287 pages\$4.50

• **Hanna's Handbook of Agricultural Chemicals**, by Lester W. Hanna. Contains descriptions of over 500 commercial chemicals. Various common names and numerical designations of fertilizers, fumigants, fungicides, weed killers, insecticides, rodenticides, etc., are explained as to composition, use, cautions, and antidotes in this pocket-sized manual. 209 pages\$5.95

• **American Wines and Wine Making**, by Philip M. Wagner. A practical illustrated book for the small grape grower and home wine-maker. Chapters on French wine-growing and on the American wines of California and the East serve as a first-rate guide. 230 pages\$5.00

• **Irrigated Soils**, by D. W. Thorne and H. B. Peterson. This book discusses soil management of arid and semi-arid soils where irrigation is necessary to crop production. Drainage, land reclamation, soil microbes, organic matter, fertilization, and crop management are discussed fully. The chapters on planning and carrying out irrigation are especially valuable. 392 pages\$7.50

• **Plant Regulators in Agriculture**, edited by H. B. Tukey. Seventeen specialists present the many different uses of plant regulators and tell what they are, how they operate, how plants respond, and where they belong in agriculture. 269 pages\$6.50

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AMERICAN FRUIT GROWER

Willoughby, Ohio

Bulk Handling Advantages

A RECORD crowd of California peach growers, estimated at 1400, took a busman's holiday to attend the eighth annual Peach Day and at Davis recently.

A panel discussion on bulk handling in peach production and processing revealed that not only the big producers but the small grower as well should consider bulk handling a part of his future.

Summing up a discussion of some 30 questions on techniques of bulk handling, Earl Blasser, grower from Live Oak, said that very real savings were possible at the grower level. Other panel members suggested that small growers might set up co-operative sorting stations. Also, the cost of machinery too expensive for a single grower might be shared.

In a second panel discussion, farm advisors from six peach-growing counties were in general agreement that growers should fertilize with nitrogen alone rather than with mixed fertilizer unless orchards clearly indicated nutrient deficiencies other than nitrogen.

A canner trade panel concluded the day's program. Irving Goldfeder, executive vice-president of Hunt Foods, Inc., Los Angeles, emphasized the importance of maintaining quality in attempting to find uses for small peaches.

War on Virus Diseases

UNIVERSITY of California scientists at Davis are engaged in a state-wide program to control virus diseases that annually inflict heavy damage on the state's grape and cherry crops.

The work is being conducted by Foundation Plant Materials Service and the departments of plant pathology, pomology, and viticulture and enology, in co-operation with federal and state agencies.

The scientists are testing grapes and cherries as well as other stone fruits, establishing foundation (virus-free) plantings, and distributing tested stock for commercial propagation.

"In grapes alone, virus damage amounts to hundreds of thousands of dollars annually," states Curtis Alley, FPMS manager. "Some growers suffer production losses of up to 75% because of leaf roll or other virus diseases that foundation stock may prevent," he said.

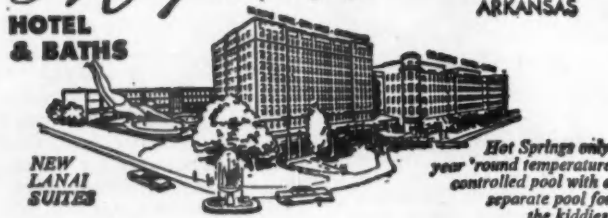
The grower's prospect of obtaining certified virus-free stock was realized last year with the adoption of

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Hot Springs only
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the kiddies.

regulations for the certification of grapes and cherries by California Department of Agriculture.

Pathologists and horticulturists also have the job of finding virus-free plants to use as parent stock. Selection and testing process for grapes includes these steps:

Vines are observed in the field for one year. Three times during that year they are inspected for virus disease symptoms. About 30 cuttings are taken from the two best vines for testing and for maintenance as the future parent plants, if the variety is clean.

Buds from the cuttings are grafted to indicator vines (vines that clearly show symptoms of one or more virus diseases). For two more years, these indicator vines are checked for signs of virus disease. If the vines prove healthy, new cuttings are made from the original, isolated cuttings for use as foundation stock.

Some 27 grape and 9 cherry varieties, including rootstocks, have been established in foundation plantings at Davis. A total of 47 more grape varieties will undergo tests next spring; 8 to 10 additional cherry varieties are now being tested. Only small plantings of foundation stock in any one variety are maintained at Davis.

Peaches and other deciduous fruits will be included in the foundation stock program.

Dwarf Tree Group Formed

INCREASING interest in dwarf trees by the Northwest fruit industry was brought into sharp focus recently with the organization of the Northwest's first Dwarf Tree Association.

Over 150 growers, researchers, and nurserymen from Washington, Oregon, and as far east as Michigan met in Yakima to discuss and evaluate the dwarf tree situation. At this time the Dwarf Tree Association was formed and Charles Worthen, Jr., Cowiche, Wash., grower, was elected temporary chairman. Walt Mellenthin, Mid-Columbia Experiment Station, Hood River, Ore., was named vice-chairman and Mrs. Marjorie McCormick of Yakima's Antles & McCormick was chosen secretary.

Wally Heuser of Hill Top Orchards & Nurseries, Hartford, Mich., was a representative of the Michigan Dwarf Tree Association and reported that his state has gone to dwarf trees on a commercial basis.

One of the Northwest's leading dwarf tree authorities, Dr. Al Roberts of Oregon Agricultural Experiment Station, Corvallis, pointed out that as yet no good commercial information on dwarf trees is available.

JULY, 1959



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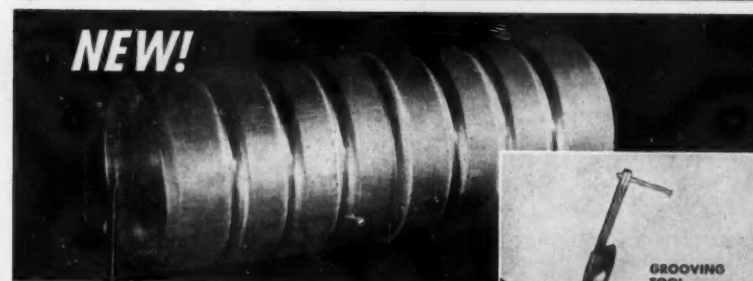
By James Edward Knott

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Willoughby, Ohio



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Says
Elmer B. Wood
Alhambra Grower

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Elmer is particularly enthusiastic over his success with S-37 Rootstock. "Here Stribling's have developed the best answer yet to the problem of nematodes," he says. "My son and I both have sandy, light soil and we always specify S-37 for new plantings of peaches and almonds."

"Besides the quality we get from Stribling's," Jim Wood adds, "the service is excellent too."

Elmer (left) and his son, Jim, who has Stribling trees in orchards of his own, point to progress of a planting of 3-year-old Fay Elberta Peach trees.

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Book Review

Plant Propagation: Principles and Practices by Hudson T. Hartmann, Associate Pomologist, and Dale E. Kester, Assistant Pomologist, University of California, Davis. \$8.75. Prentice-Hall, Inc., publishers.

This volume gives a clear, encyclopedic coverage of the theoretical aspects and practical techniques for the propagation of higher plant life. The book can be used as a quick reference guide or as a source of comprehensive information for a thorough study of the subject.

Beginning with the basic essentials of the field, the book presents a brief description of the nature of propagation, followed by an analysis of the structures and equipment necessary for propagating healthy plants.

The next section is devoted to seed propagation, followed by a third section on vegetative propagation, which features a chapter on the theories and techniques employed in grafting and budding.

In the last section, the authors cover the propagation of specific plants. One chapter deals with nearly 50 of the world's important fruit and nut crops.

Among new developments considered throughout the text are intermittent mist propagation, use of polyethylene, hormone treatments, new types of root media, University of California method of soil mixes, production and use of disease-free propagative material. The book includes 200 illustrations, with many step-by-step line drawings showing how propagation methods are performed.

4-H to Stage Fair

AN Old-Fashioned Country Fair—sort of brings back nostalgic memories of the "good ole days", doesn't it?

The 4-H clubs of Santa Cruz County, California, are massing their efforts to give their city cousins just such a treat on July 25 when the all-day fair will take place at the Santa Cruz High School football field.

They will offer growing plants, fresh vegetables, homemade jams and jellies, handmade needlework, a country store auction, decorative items made from driftwood and redwood rounds, and they have an ambitious plan to serve 2000 barbecue chicken dinners.

Goal of all this activity? \$3000 for 4-H Camp Loma which has served more than 1000 4-H boys and girls.

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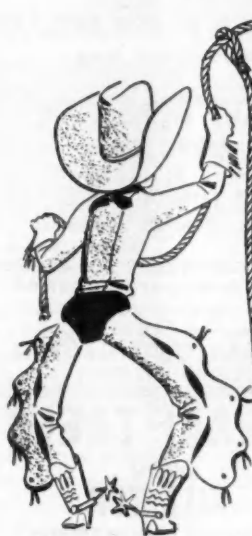
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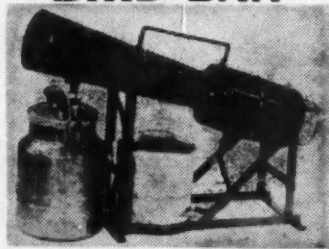
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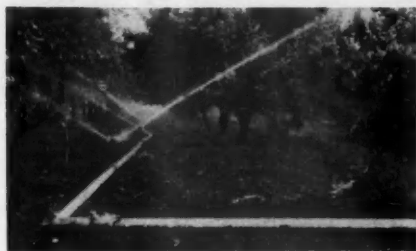
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Chattin Ditcher Co., Boise, Idaho
Danuser Machine Co., Fulton, Mo.
John Deere, Moline, Ill.
Eversman Mfg. Co., 1145 5th Ave., Denver, Colo.
Gledhill Road Mch. Co., Galion, Ohio
International Harvester Co., 180 N. Michigan Ave.,
Chicago 1, Ill.
Marvin Landplane Co., P.O. Box 209, Woodland,
Calif.
Owensboro Ditcher & Grader Co., Owensboro, Ky.
Towner Mfg. Co., Santa Ana, Calif.

ENGINE METERS

John W. Hobbs Corp., Yale Blvd. & Ash, Spring-
field, Ill.

ENGINES

Allis-Chalmers Mfg. Co., 1126 S. 70th St., Milwaukee
I, Wis.
Briggs & Stratton Corp., 2711 N. 13th St., Milwau-
kee I, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
Caterpillar Tractor Co., 1949 Cleveland Ave.,
Peoria, Ill.
Chrysler Corp., Indus. Eng. Div., 12200 E. Jefferson,
Detroit, Mich.
Clinton Machine Co., Maquoketa, Iowa
Continental Motors Corp., Muskegon, Mich.
Cushman Motor Works, 900 N. 21st St., Lincoln 1,
Nebr.
John Deere, Moline, Ill.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chi-
cago 5, Ill.
Ford Motor Co., Dearborn, Mich.
Friend Mfg. Co., Gasport, N. Y.
GM, Detroit Diesel Div., Detroit, Mich.
Hercules Motors Corp., 200 11th St. S.E., Canton,
Ohio
International Harvester Co., 180 N. Michigan Ave.,
Chicago 1, Ill.
Kohler Co., Kohler, Wis.
Lauson Div., Tecumseh Products Co., New Holstein,
Wis.
Motor Products Div., Tecumseh Products Co., Graf-
ton, Wis.
The F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Chemical Div., Food Machinery & Chemi-
cal Corp., Middleport, N. Y.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
D. W. Onan & Sons, Inc., University Ave. S. E. at
25th, Minneapolis, Minn.
Rain Control, Inc., Hudson, Mich.
United States Motors Corp., Oshkosh, Wis.
Waukesha Motor Co., Waukesha, Wis.
Wisconsin Motor Corp., 1910 S. 53rd, Milwaukee 6,
Wis.

FERTILIZER INJECTORS

John Blue Co., Inc., Huntsville, Ala.
Dragon Engineering Co., 627 McClary, Oakland 2,
Calif.
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Metals, Inc., 858 Goldsboro St., Greens-
boro, N. C.

Marvin Landplane Co., P.O. Box 209, Woodland,
Calif.
Michigan Orchard Supply Co., South Haven, Mich.
Portable Aluminum Irrigation Co., Inc., P.O. Box
878, Vista, Calif.
Southern Plow Co., Columbus, Ga.

HOSE

EYELET

Mantle & Mantle, Painesville, Ohio

IRRIGATION

Agricultural Rubber Products Corp., 103 Warren St.,
New York, N. Y.
John Bean Div., Food Machinery & Chemical Corp.,
Lansing, Mich., and San Jose, Calif.
Florist Products, 1843 Oakton, Des Plaines, Ill.
The Gates Rubber Co., Sales Div., 999 S. Broadway,
Denver 17, Colo.
Lincoln Tent & Awning Co., Lincoln, Nebr.
Wade' Rain, 1919 N. W. Thurman, Portland 9, Ore.

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Champion Corp., Hammond, Ind.
Chicago Metal Mfg. Co., 37th & Rockwell, Chicago 32, Ill.

POROUS

Florist Products, 1843 Oakton, Des Plaines, Ill.
Lincoln Tent & Awning Co., Lincoln, Nebr.
Mantle & Mantle, Painesville, Ohio
Whiteshows, Inc., 17514 Woodward Ave., Detroit 3, Mich.

SUCTION

Agricultural Rubber Products Corp., 103 Warren St., New York, N. Y.

HOSE, REEL

Oldfield Equipment Co., 430 W. Seymour Ave., Cincinnati 16, Ohio

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W. R. Ames, 1001 Dempsey Rd., Milpitas, Calif.
General Scientific Equipment Co., Hamden, Conn.
Industrial Instruments, Inc., 89 Commerce Rd., Cedar Grove, N. J.
Irrigation Eng. Co., 2809 E. Foothill Blvd., Pasadena, Calif.
National Agri. Supply Co., Fort Atkinson, Wis.
Stoller Research Co., P.O. Box 1071, Santa Cruz, Calif.

PIPE

ASBESTOS-CEMENT

Johns-Manville Corp., 22 E. 40 St., N. Y. 16, N. Y.

METAL

Albert Pipe Supply Co., Inc., Berry & No. 13th St., Brooklyn, N. Y.
W. R. Ames Co., 1001 Dempsey Rd., Milpitas, Calif.; Tampa, Fla.
John Bean Div., Food Machinery & Chemical Corp., Lansing, Mich., and San Jose, Calif.
Champion Corp., Hammond, Ind.
Chase Brass & Copper Co., Waterbury, Conn.
Chicago Metal Mfg. Co., 37th & So. Rockwell, Chicago 32, Ill.
Michigan Orchard Supply Co., South Haven, Mich.
National Tube Division, U. S. Steel Corp., Wm. Penn Place, Pittsburgh 30, Pa.
Race & Race Inc., Winter Haven, Fla.
Rainbow Sales Co., Chattanooga, Tenn.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio
Revere Copper & Brass Inc., 230 Park Ave., N. Y. 17, N. Y.
Reynolds Metals Co., 6601 W. Broad St., Richmond 18, Va.

PERFORATED

W. R. Ames Co., 1001 Dempsey Rd., Milpitas, Calif.; Tampa, Fla.
Race & Race Inc., Winter Haven, Fla.
Wade' Rain, 1919 N. W. Thurman, Portland 9, Ore.

PLASTIC

Carlton Products Corp., 10225 Meech, Cleveland 5, Ohio
Florist Products, 1843 Oakton, Des Plaines, Ill.
Manufacturers Corp. of Ohio, Mansfield, Ohio
National Tube Div., U. S. Steel Co., William Penn Place, Pittsburgh 30, Pa.
Triangle Conduit & Cable Co., Jersey Ave., New Brunswick, N. J.
Trinity Products, Inc., Trinity, Texas
Wade' Rain, 1919 N. W. Thurman, Portland 9, Ore.
Yardley Plastic Co., Columbus, Ohio

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Aluminum Corp. of America, 425 Sixth Ave., Pittsburgh, Pa.
W. R. Ames Co., 1001 Dempsey Rd., Milpitas, Calif.; Tampa, Fla.
John Bean Div., Food Machinery & Chemical Corp., Lansing, Mich., and San Jose, Calif.
California Ladder Co., Inc., 13636 Foxley Dr., Whittier, Calif.
Champion Corp., Hammond, Ind.
Chicago Metal Mfg. Co., 37th & So. Rockwell, Chicago 32, Ill.
Commercial Metals Treating Co., Box 657, Toledo, Ohio
Evans Orchard Supply Co., 305 Delaware, Kansas City, Mo.
Irrigation Equip. Co., Inc., Eugene, Ore.
McDowell Mfg. Co., 301 Stanton Ave., Pittsburgh, Pa.
Michigan Orchard Supply Co., South Haven, Mich.
Moulton Irrigation Co., Withrow, Minn.
Race & Race Inc., Winter Haven, Fla.
Rainbow Sales Co., Chattanooga, Tenn.
Rain Control, Inc., Hudson, Mich.
Republic Steel Co., Republic Bldg., Cleveland 1, Ohio
Reynolds Metals Co., 6601 W. Broad St., Richmond 18, Va.
Veg-Acre Farms, Cape Cod, Forestdale, Mass.
Wade' Rain, 1919 N. W. Thurman, Portland 9, Ore.

PIPE CARRIER

Kellam Co., Biscoe, N. C.

PIPE REPAIR, ALUMINUM

Aluminum Supply Co., Tubing Div., No. 800 Fancher Way, Spokane, Wash.

PUMPS

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Allis-Chalmers Mfg. Co., 1126 S. 70th St., Milwaukee, Wis.
Barnes Mfg. Co., Mansfield, Ohio
Continental Belton Corp., Belton, Tex.
Dayton Pump & Mfg. Co., 500 N. Webster Ave., Dayton, Ohio
Decatur Pump Co., Decatur, Ill.
Deming Co., Salem, Ohio
Dempster Mill Mfg. Co., Beatrice, Nebr.
Fairbanks Morse, 600 S. Michigan Ave., Chicago 5, Ill.

Florist Products, 1843 Oakton, Des Plaines, Ill.
Gorman-Rupp Co., Mansfield, Ohio
Goulds Pumps Inc., Seneca Falls, N. Y.
Hale Fire Pump Co., Conshohocken, Pa.
Homelite Corp., Port Chester, N. Y.
Jacuzzi Bros., Inc., Richmond, Calif.
Lobee Pump & Machinery Co., Gasport, N. Y.
Marine Products Co., 515 Lyncaster, Detroit 14, Mich.
Marlow Pumps, Div. of Bell & Gossett Co., Box 200, Midland Park, N. J.
F. E. Myers & Bro. Co., Ashland, Ohio
Peerless Pump Div., Food Mch. & Chem. Corp., Indianapolis, Ind.; Los Angeles 31, Calif.
Portable Aluminum Irrigation Co., Inc., P.O. Box 878, Vista, Calif.
Rain Control, Inc., Hudson, Mich.
Worthington Corp., Harrison, N. J.

DEEP WELL

Deming Co., Salem, Ohio
Dempster Mill Mfg. Co., Beatrice, Nebr.
Fairbanks Morse, 600 S. Michigan Ave., Chicago 5, Ill.
Goulds Pumps, Inc., Seneca Falls, N. Y.
F. E. Myers & Bro. Co., Ashland, Ohio
Peerless Pump Div., Food Mch. & Chem. Corp., Indianapolis, Ind.; Los Angeles 31, Calif.

PORTABLE

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
Barnes Mfg. Co., Mansfield, Ohio
Ralph B. Carter Co., 210 Atlantic St., Hackensack, N. J.
Carver Pump Co., Muscatine, Iowa
Construction Mch. Co., Waterloo, Iowa
Deming Co., Salem, Ohio
Gorman-Rupp Co., Mansfield, Ohio

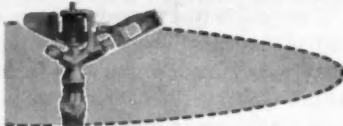
RAIN GAUGES

Tru-Chek Rain Gauge Co., 100 North Broadway, Albert Lea, Minn.

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W. R. Ames Co., 1001 Dempsey Rd., Milpitas, Calif.; Tampa, Fla.
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McCune & Co., 3721 Mahoning Ave., Youngstown 9, Ohio

McDowell Mfg. Co., Pittsburgh 9, Pa.
Michigan Orchard Supply Co., South Haven, Mich.
Moulton Irrigation Co., Withrow, Minn.
National Rain Bird Sales & Eng. Corp., Azusa, Calif.
Olin-Mathieson Chemical Co., Little Rock, Ark.
Portable Aluminum Irrigation Co., Inc., P.O. Box 878, Vista, Calif.

Rain Control, Inc., Hudson, Mich.
Rainbow Sales Co., Chattanooga, Tenn.
Rainy Sprinkler Sales, 609 W. Lake St., Peoria, Ill.
Shur-Rene, Dept. of John Bean Western Div. Food Machinery & Chem. Corp., San Jose, Calif.
Skinner Irrigation Co., 803 Water St., Troy, Ohio
Sodus Fruit Exchange, Sodus, Mich.
Wade' Rain, 1919 N. W. Thurman, Portland 9, Ore.
Whiteshows, Inc., 17514 Woodward, Detroit, Mich.

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Florist Products, 1843 Oakton, Des Plaines, Ill.
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Rainbow Sales Co., Chattanooga, Tenn.
Rain Control, Inc., Hudson, Mich.
Rainy Sprinkler Sales, Peoria, Ill.
Skinner Irrigation, 803 Water St., Troy, Ohio

VALVES, HYDRANT-TYPE

McDowell Mfg. Co., 301 Stanton Ave., Pittsburgh 9, Pa.
Rain Control, Inc., Hudson, Mich.
Wade' Rain, 1919 N. W. Thurman, Portland 9, Ore.

WATER SUPPLY

ENGINES

See IRRIGATION & DRAINAGE

PUMPS

See IRRIGATION & DRAINAGE

TANKS (WOOD), WATER STORAGE

Arrow Tank Co., Inc., 16 Barnett St., Buffalo 15, N. Y.
W. E. Caldwell Co., Inc., Brandeis & Brook Sts., Louisville, Ky.
Hauser-Stander Tank Co., 4838 Spring Grove Ave., Cincinnati 32, Ohio
Kalamazoo Tank & Silo Co., 508 Harrison St., Kalamazoo, Mich.
Kaustlin Co., Inc., Perry, N. Y.

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Air-O-Fan Products Corp., Gilroy, Calif.
Arrow Tank Co., 16 Barnett St., Buffalo 15, N. Y.
Broadway Rubber Corp., 529 E. Broadway, Louisville 2, Ky.
John Bacon Co., Gasport, N. Y.
John Bean Div., Food Machinery & Chemical Corp., Lansing, Mich.; San Jose, Calif.
Dobbins Div., Chamberlain Corp., Waterloo, Iowa
Frick Company, Waynesboro, Pa.
Friend Mfg. Co., Inc., Gasport, N. Y.
Gorman-Rupp Co., Mansfield, Ohio
Hardie Mfg. Div., Vulcan Iron Works, 730 S. Main St., Wilkes-Barre, Pa.
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Ill.
Kalamazoo Tank & Silo Co., 508 Harrison St., Kalamazoo, Mich.
The F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
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Taylor Instrument Co., Ames St., Rochester 1, N. Y.

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National-Riverside Co., Riverside, Calif.
Robinson Blower & Engineering Corp., San Martin, Calif.
Scheu Products Co., Upland, Calif.

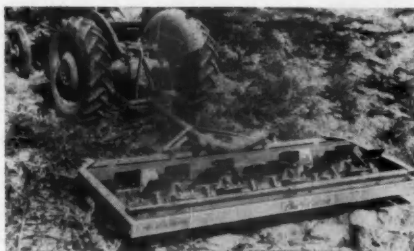
THERMOMETERS

See Storages

WIND MACHINES

Florida Div., Food Machinery & Chemical Corp., Lakeland, Fla.
Friend Mfg. Co., Gasport, N. Y.
National Frost Protection Co., Inc., Burbank, Calif.

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BRUSH AND SOD CUTTERS

See PRUNING AND GRAFTING

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John Deere, Moline, Ill.

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Ford Motor Co., Tractor & Implement Div., Birmingham, Mich.

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Lift Tools, Inc., Eau Claire, Mich.

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Dempster Mill Mfg. Co., Beatrice, Nebr.

Farm Machinery Mfg. Co., Marshalltown, Iowa

Ford Motor Co., Tractor & Implement Div., Birmingham, Mich.

Friday Tractor Co., Hartford, Mich.

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Empire Plow Co., Inc., 3140 E. 65th, Cleveland, O.

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Lantz Mfg. Co., Inc., Valparaiso, Ind.

Massey-Ferguson, Inc., Racine, Wis.

National Farm Equipment & Supply, Marion, Ind.

Osmundson Forge Co., Webster City, Iowa

Osmundson Spade Mfg. Co., Perry, Iowa

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Southern Plow Co., Columbus, Ga.

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Cole Mfg. Co., Charlotte, N. C.

W. F. Covington Planter Co., Dothan, Ala.

Ferguson Mfg. Co., Inc., Suffolk, Va.

Harbison-Paine, Inc., Box 448, Loveland, Colo.

International Harvester Co., 180 No. Michigan Ave., Chicago 1, Ill.

Massey-Ferguson, Inc., Racine, Wis.

Minneapolis-Moline Co., Box 1050, Minneapolis 1, Minn.

Oliver Corp., 400 W. Madison St., Chicago 6, Ill.

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Belt Corporation, Orient, Ohio

J. I. Case Co., 700 State St., Racine, Wis.

Cyclone Seeder Co., Urbana, Ind.

John Deere, Moline, Ill.

Ezee Plow Corp., 3428 N. Harlem St., Chicago, Ill.

Farmhand Company Div., Superior Separator Co., Hopkins, Minn.

Frick Company, Waynesboro, Pa.

E. S. Gandrud Co., Owatonna, Minn.

International Harvester Co., 180 No. Michigan, Chicago 1, Ill.

Massey-Ferguson, Inc., Racine, Wis.

Masters Planter Co., Benton Harbor, Mich.

Minneapolis-Moline Co., Box 1050, Minneapolis 1, Minn.

New Idea Farm Equipment Co., Coldwater, Ohio

Oliver Corp., 400 W. Madison St., Chicago 6, Ill.

Pender Mfg. & Supply Co., Box 6097, Raleigh, N. C.

Skibbe Mfg. Co., Sodus, Mich.

Tractor & Implement Div., Ford Motor Co., Birmingham, Mich.

Trump Sales Ltd., Box 160, Oliver, B. C., Canada

C. J. Turley Co., Bloomington, Ill.

Wade Rain, 1919 N. W. Thurman, Portland 9, Ore.

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John Blue Co., Inc., Huntsville, Ala.

Dragon Engineering Co., 627 McClary, Oakland 2, Calif.

Florist Products, 1843 Oakton, Des Plaines, Ill.

General Metals, Inc., 858 Goldsboro St., Greensboro, N. C.

Marvin Landplane Co., P. O. Box 209, Woodland, Calif.

Southern Plow Co., Columbus, Ga.

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BMC Fork Lift, Blackwelder Mfg. Co., Rio Vista, Calif.

Edwards Equipment Co., Yakima, Wash.

Gladden-Haas, Inc., Owosso, Mich.

Harjo Products Corp., 101 Sheldon Ave., S.E., Grand Rapids 2, Mich.

Henderson Mfg. Co., Manchester, Iowa

Henry Mfg. Co., Inc., P.O. Box 521, Topeka, Kans.

Holt Fork Lift, Independent Distributors, 27 N. E. Broadway, Portland 12, Ore.

Lift Tools Inc., Eau Claire, Mich.

Massey-Ferguson, Inc., Racine, Wis.

New Idea Farm Equipment Co., Coldwater, Ohio

Portable Elevator Mfg. Co., 920 E. Grove St., Bloomington, Ill.

Wagner Iron Wks., 1905 S. First St., Milwaukee 1, Wis.

HARROWS, DISC

OFFSET

Allis-Chalmers Mfg. Co., 1126 So. 70th St., Milwaukee 1, Wis.

J. I. Case Co., 700 State St., Racine, Wis.

John Deere, Moline, Ill.

Ford Motor Co., Tractor & Implement Div., Birmingham, Mich.

International Harvester Co., 180 No. Michigan Ave., Chicago 1, Ill.

Massey-Ferguson, Inc., Racine, Wis.

Minneapolis-Moline Co., Box 1050, Minneapolis 1, Minn.

Pacific Div., Krause Plow Corp., 9151 S. Painter Ave., Whittier, Calif.

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Towner Mfg. Co., Santa Ana, Calif.

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TRANS-FORK

Fits any make
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Handles Either
Boxes or Bins!



(Above) Edwards Trans-Fork, 60" model, complete with Hold-Down and Side-Shift. Full 60" lifting height is more than enough to stack bins and load trucks. Low overall height (closed) of 52".

IDEAL TOOL FOR ORCHARD USE

- Load capacity 2500 pounds 24 inches from face of fork to center of load.
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Cockshutt Farm Equip., Inc., Bellevue, Ohio
John Deere, Moline, Ill.
International Harvester Co., 180 No. Michigan Ave., Chicago 1, Ill.
G. A. Kelly Plow Co., Longview, Texas
Massey-Ferguson, Inc., Racine, Wis.
McAdam & Sons, Barker, N.Y.
Minneapolis-Moline Co., Box 1050, Minneapolis 1, Minn.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
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Alexander Mfg. Co., Picayune, Miss.
Athens Plow Co., Athens, Tenn.

The Cobey Corp., Galion, Ohio
Continental Farm Equipment Co., Omaha 11, Nebr.
Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
King Plow Co., Atlanta, Ga.
Lift Tools, Inc., Eau Claire, Mich.
Massey-Ferguson, Inc., Racine, Wis.
McAdam & Sons, Barker, N.Y.
Pittsburgh Forgings Co., Farm Tools Div., Coraopolis, Pa.
Rose Mfg. Co., 1714 S. First St., Yakima, Wash.
Von Equipment Co., Inc., P.O. Box 1791, Memphis, Tenn.

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Perdue & Orton Co., North East, Pa.

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225 acre vineyard at North East, Pa.,
says about **AMCO**
ORCHARD HARROWS



"We have been using an AMCO disc for maintaining our vineyard. This flange type disc does a good job of discing in cover crops and controlling weed growth. The flange type blades control the working depth of the disc.

"Roots of a grapevine are pretty close to the surface and actually run from row to row. In our maintenance work, we do not want to cut any more of these roots than is absolutely necessary. Still we must control weeds and disc in cover crops. The weight of your disc and the angle at which it is set does this job remarkably well with practically no damage to roots.

"Another feature we like is that your disc requires no maintenance and the factory sealed bearings guarantee long life."



FLEURY-BISSEL Shaped Blades

Fleury-Bissel Blades with depth gauges allow the harrow to strip clean without damaging shallow roots.

AMCO Grove and Orchard Harrows are specialized machines designed for this work. Not a rehash of a field harrow but a development of years of research from California to Florida to Maine. Write for complete data.

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Trump Ltd., Oroville, Wash., and Oliver, B. C., Canada
Winpower Mfg. Co., Newton, Iowa

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John Deere, Moline, Ill.
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Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
International Harvester Co., 180 No. Michigan Ave., Chicago 1, Ill.
Kosch Mfg. Co., Columbus, Nebr.
Krengel Machine Co., Inc., P.O. Box 865, Twin Falls, Idaho
Massey-Ferguson, Inc., Racine, Wis.
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New Idea Farm Equipment Co., Coldwater, Ohio
Newton Mowers, Inc., Clintonville, Wis.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.

SICKLE BAR—Trailer P.T.O. Drive

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Massey-Ferguson, Inc., Racine, Wis.
Minneapolis-Moline Co., Box 1050, Minneapolis 1, Minn.
New Holland Machine Div., Sperry Rand Corp., New Holland, Pa.
New Idea Farm Equipment Co., Coldwater, Ohio

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Bready Tractor & Implement Co., Solon, Ohio
George Tractor Div., Community Industries Assn., Sullivan, Ill.
Gravelly Tractors, Inc., Dunbar, W. Va.
Hoffco, Inc., Richmond, Ind.
Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis 8, Minn.
National Mower Co., 839 Cromwell Ave., St. Paul, Minn.
Roths Industries, Inc., Alma, Michigan
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.

MULCHERS

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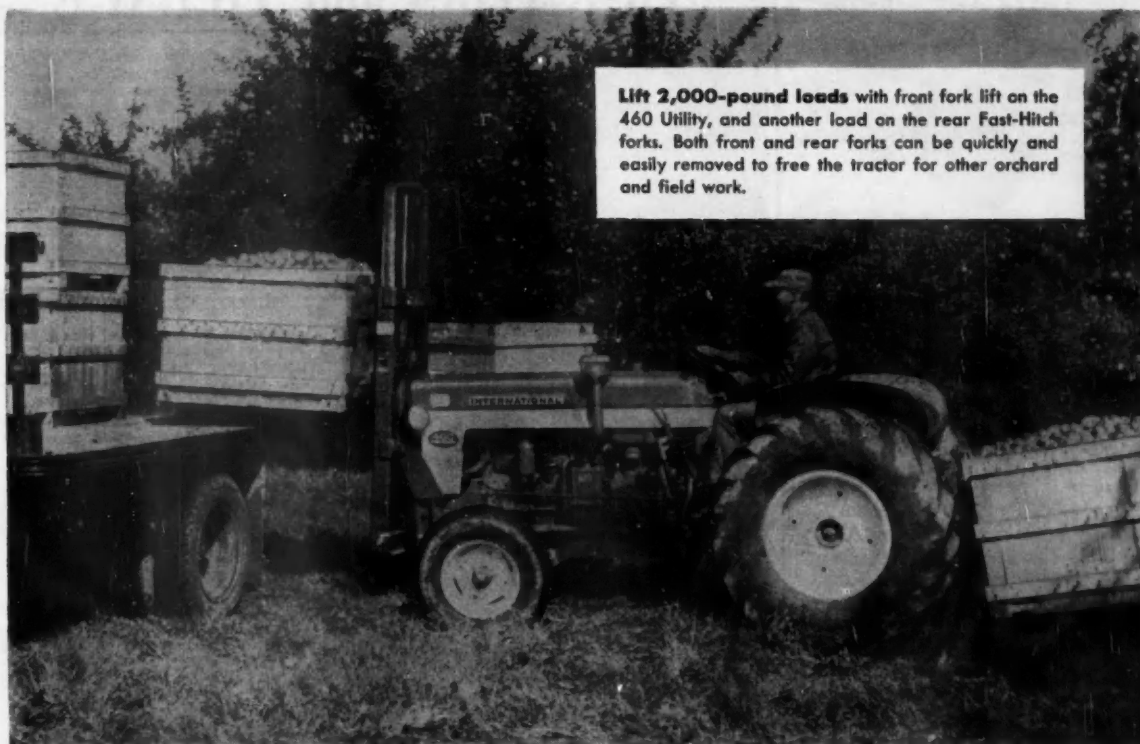
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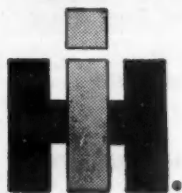
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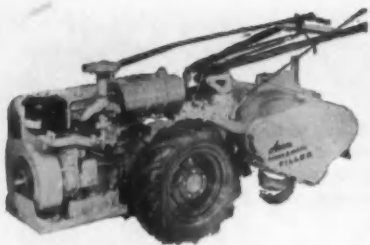
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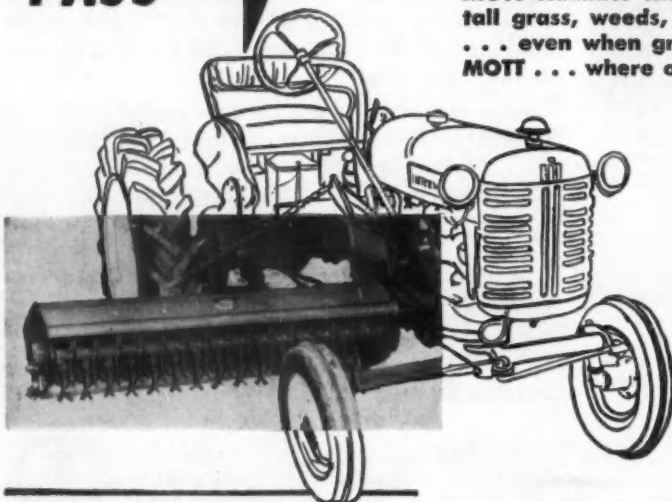
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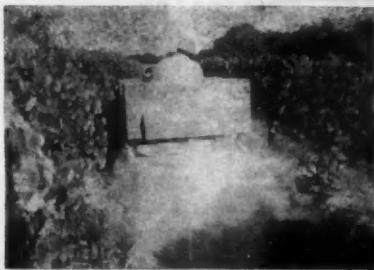
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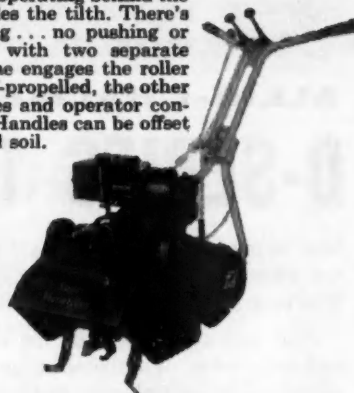
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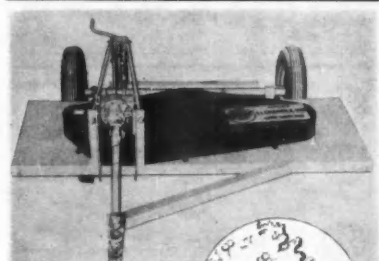
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Lilliston Implement Co., Albany, Ga.
New Idea Farm Equipment Co., Coldwater, Ohio
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Trump Sales, Ltd., Box 60, Oliver, B. C., Canada
Wood Bros. Mfg. Co., O'regon, Ill.

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C. W. Mott, 4014 Eberly Ave., Brookfield, Ill.
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B. F. Goodrich Co., 500 S. Main St., Akron, Ohio
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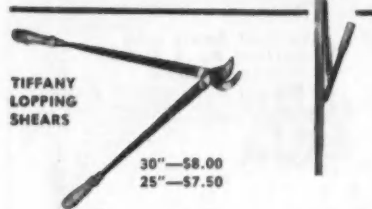


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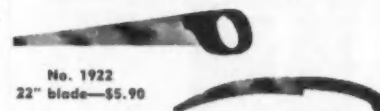


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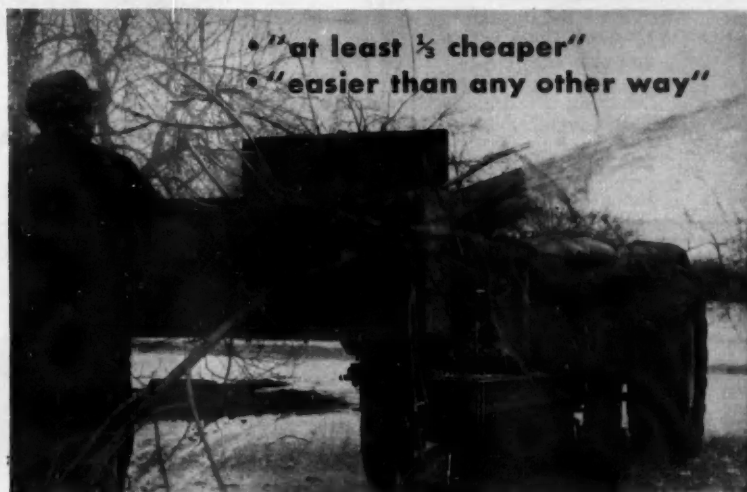
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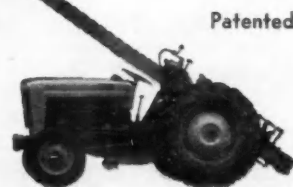
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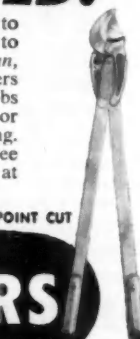
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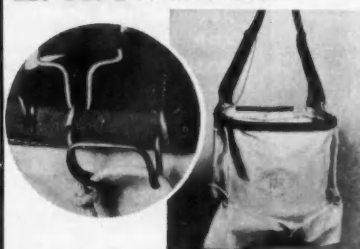
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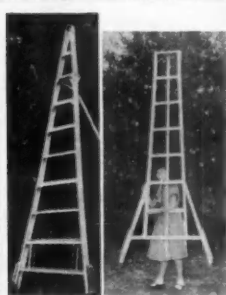
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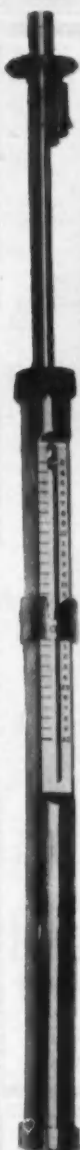
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203

206

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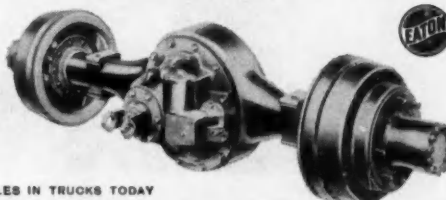
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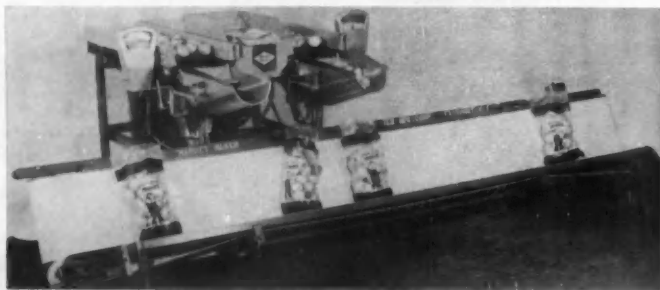
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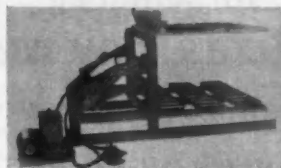
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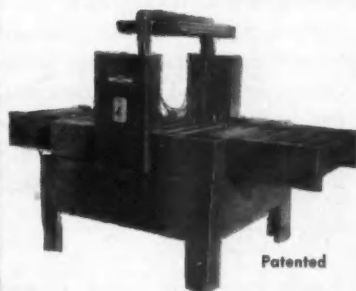
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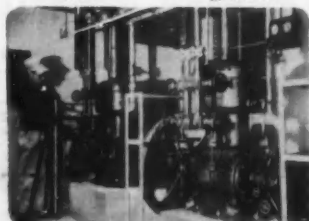
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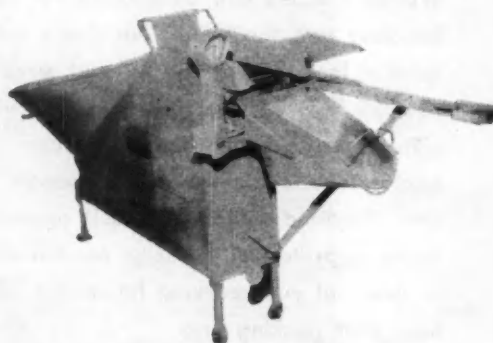
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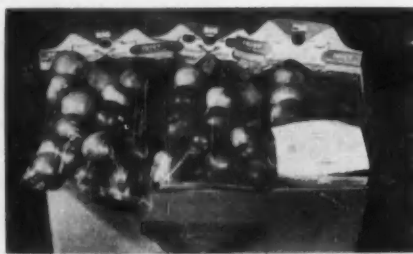
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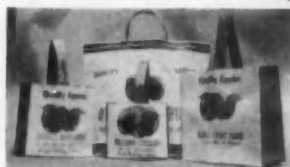
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Please consult Alphabetical Index
on pages 15 and 16

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Gaylord Container Corp., 111 N. 4th St., St. Louis, Mo.
The Hinde & Daugh Paper Co., Sandusky, Ohio
Ohio Boxboard Co., Rittman, Ohio
Penn-Mar Container Corp., 56th St. & Paschall Ave., Philadelphia 43, Pa.
PrePackage Sales Corp., Rock Island, Ill.
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Rice, Trew & Rice Co., Div. of Inland Container Corp., Biglerville, Pa.
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Celanese Corp. of America, 180 Madison Ave., N. Y. N. Y.
Central States Paper & Bag Co., Inc., 5221 Natural Bridge Ave., St. Louis 15, Mo.
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Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Film Dept., Wilmington 98, Del.
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Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
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on pages 15 and 16

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Oliver Corp., 400 W. Madison Ave., Chicago 6, Ill.

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AMERICAN FRUIT GROWER

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Ilg Electric Ventilating Co., 2850 N. Pulaski Road, Chicago, Ill.
Kelvinator Div., American Motors Corp., 14250 Plymouth Rd., Detroit 32, Mich.
Master Fan Corp., 1323 Channing St., Los Angeles, Calif.
Niagara Blower Co., 405 Lexington, Dept. V, N.Y. 17, N.Y.
Northern Blower Co., 4500 Barberton, Cleveland 2, Ohio
Western Blower Co., 1800 Airport Way, Seattle, Wash.
Westinghouse Elec. Corp., 306 Fourth Ave., Pittsburgh 30, Pa.
Worthington Corp., Harrison, N. J.

BUILDING PAPERS

American Siskraft Corp., Attleboro, Mass.
Barrett Div., Allied Chemical Corp., 40 Rector St., N. Y., N. Y.
Bird & Son, Inc., E. Walpole, Mass.
Philip Carey Mfg. Co., Cincinnati 15, Ohio
Celotex Corp., 120 So. LaSalle, Chicago, Ill.
Central States Paper and Bag Co., Inc., 5221 Natural Bridge, St. Louis 15, Mo.
National Manufacturing Corp., Tonawanda, N.Y.
The Ruberoid Co., 500 Fifth Ave., N. Y. 36, N. Y.
United States Gypsum Co., 300 West Adams St., Chicago 6, Ill.

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Howard S. Caldwell Co., 721 E. Main St., Lancaster, Ohio
Conner Eng. Corp., Danbury, Conn.
Union Carbide Chemicals Co., CRAG Agricultural Chemicals, 180 S. Broadway, White Plains, N.Y.
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Conner Eng. Corp., Danbury, Conn.
Scientific Glass Apparatus Co., Bloomfield, N. J.

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See PACKING HOUSE EQUIPMENT DOORS

Harris Ice Machine Works, 61 S. E. Yamhill, Portland, Ore.
Jamison Cold Storage Door Co., Hagerstown, Md.
Nat'l Refrigerator Co., 827 Koeln, St. Louis, Mo.
Schaeffkopf Mfg. Co., 312 N. 3rd St., Madison, Wis.
Truscon Steel Div., Republic Steel Corp., Youngstown, Ohio

HUMIDIFIERS

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Buffalo Forge Co., 490 Broadway, Buffalo, N. Y.
Carrier Corp., 300 So. Geddes, Syracuse 1, N. Y.
Frick Company, Waynesboro, Pa.
General Electric Co., Bloomfield, N. J.
Ilg Electric Vent Co., 2850 N. Pulaski, Chicago 41, Ill.
Niagara Blower Co., Dept. V, 405 Lexington Ave., N. Y. 17, N. Y.
Research Products Corp., 1015 E. Washington Ave., Madison 10, Wis.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.
Worthington Corp., Harrison, N. J.

INSULATION

Alumiseal Corp., 429 E. 53 St., N. Y. 22, N. Y.
American Siskraft Corp., Attleboro, Mass.
Barrett Div., Allied Chem. Corp., 40 Rector St., N. Y., N. Y.
Bird & Son, E. Walpole, Mass.
The Philip Carey Mfg. Co., Lockland, Cincinnati 15, Ohio
The Celotex Corp., 120 S. LaSalle, Chicago 3, Ill.
Central States Paper and Bag Co., Inc., 5221 Natural Bridge, St. Louis 15, Mo.
Chamberlin Co. of America, 1254 LaBrosse, Detroit 32, Mich.
Dow Chemical Co., Midland, Mich.
C. T. Hogan & Co., Inc., 429 East 53rd St., New York 22, N. Y.
Homatsco Co., Trenton, N. J.
Insulite Div. of Minn. & Ontario Paper Co., Baker Arcade Bldg., Minneapolis 2, Minn.
Johns-Manville Corp., 22 E. 40th St., N. Y. 16, N. Y.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Kimberly-Clark Corp., Neenah, Wis.
Masonite Corp., 111 W. Washington, Chicago 2, Ill.
Monsanto Chem. Co., Lindberg & Olive St. Road, St. Louis, Mo.
Mundet Cork Co., North Bergen, N. J.
National Cork Company, Englewood, N. J.
Owens Corning Fiberglass Corp., Toledo 1, Ohio
Pacific Lumber Co., By-Products Div., 200 Bush St., San Francisco, Calif.
Pittsburgh Corning Corp., One Gateway Center, Pittsburgh 22, Pa.
Reflectal Corporation, 310 S. Michigan Ave., Chicago 4, Ill.
Reynolds Metals Co., Richmond 18, Va.
Ruberoid Co., 500 Fifth Ave., N. Y. 36, N. Y.
Servicised Products Corp., 6053 W. 65th St., Chicago 38, Ill.
United Cork Companies, W. Kearny, N. J.
United States Gypsum Co., 300 W. Adams St., Chicago 6, Ill.
Zonolite Co., 135 S. LaSalle St., Chicago 3, Ill.

PACKAGING & STORAGE ENGINEERS

Art de Desrochers, Rt. 3, Box 3085, Wenatchee, Wash.
Food Industries Research & Engineering, 33 S. Second Ave., Yakima, Wash.
Richard Levin, Chapel Hill, N. C.

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City Products Corp., 33 S. Clark St., Chicago 3, Ill.
Nat'l. Assn. of Ice Industries, Washington 6, D. C.
Niagara Blower Co., Dept. V, 405 Lexington Ave., N. Y., N. Y.
Sherrer-Gillette Co., Marshall, Mich.

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Curtis Mfg. Co., 1905 Kienlen St., St. Louis 20, Mo.
Dicelur Div. General Machine & Mfg. Co., Berwick, Pa.
Frick Company, Waynesboro, Pa.
Frigidaire Div., G. M. Corp., Dayton 1, Ohio
General Electric Co., 1285 Boston Ave., Bridgeport, Conn.
Harris Ice Machine Works, 61 S. E. Yamhill St., Portland, Ore.
Howe Ice Machine Co., 2825 W. Montrose Ave., Chicago, Ill.
Niagara Blower Co., Dept. V, 405 Lexington Ave., N. Y., N. Y.
Norge Div. Borg-Warner Corp., Merchandise Mart, Chicago, Ill.
Victor Products Corp., Hagerstown, Md.
Westinghouse Electric & Mfg. Co., E. Springfield, Mass.
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Precision Thermometer & Instrument Co., 1433 Brandywine, Philadelphia 30, Pa.
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Ilg Electric Ventilating Co., 2873 N. Pulaski, Chicago 41, Ill.
James Mfg. Co., Ft. Atkinson, Wis.
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Please consult Alphabetical Index on pages 15 and 16

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Flintkote Co., 30 Rockefeller Plaza, N. Y., 20, N. Y.
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y.
National Manufacturing Corp., Tonawanda, N.Y.
Pittsburgh Plate Glass Co., Columbia-Southern Chemical Corp., 420 Fort Duquesne Blvd., Pittsburgh 13, Pa.
The Ruberoid Co., 500 Fifth Ave., N. Y. 36, N. Y.
United States Gypsum Co., 300 West Adams St., Chicago 1, Ill.

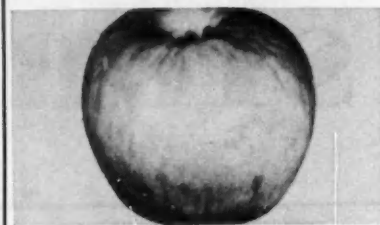
WOOD PRESERVATIVES

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Dow Chemical Co., Midland, Mich.
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National Manufacturing Corp., Tonawanda, N.Y.
The Ruberoid Co., 500 Fifth Ave., N. Y. 36, N. Y.
Thompson Chemicals Corp., 3028 Locust St., St. Louis 3, Mo.; 3600 Monon St., Los Angeles 27, Calif.
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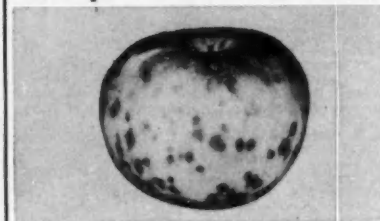
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- The Fight for Virus-Free Fruit Stock
- How the Ericksons Grow Fruit in Wisconsin's Door County
- The How and the Why of New York State's C-A Law
- Automatic Packing of Peaches
- My Secret of Success with Plums
- The Team Approach to Marketing Grapes
- Illinois' Golden Delicious Maturity Standards
- Peaches Go Commercial in Florida

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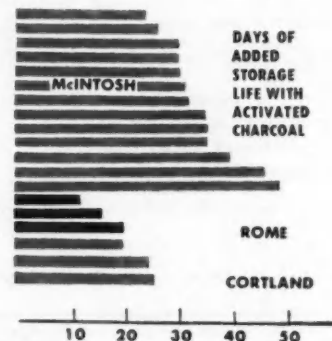


Chart shows days of added storage life in typical commercial tests conducted by Dr. R. M. Smock, Cornell University.

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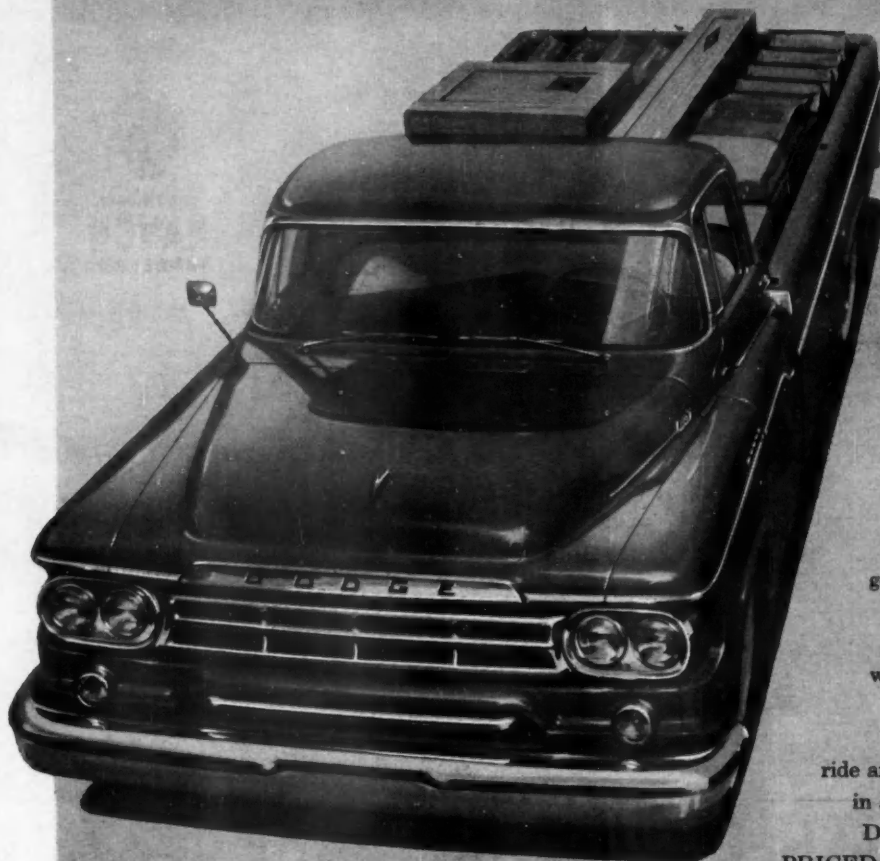
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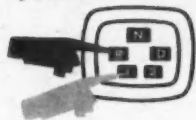
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"Captan has been my choice for years"

*says: Sherman V. Allen, Allen Orchards
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Mr. Allen adds: "I experimented with Captan for two years. I compared its effectiveness with other materials and looked at it from a dollar and cents standpoint. It proved to be such a good fungicide that from 1953 on it has been my choice from calyx through summer sprays."

Mr. Allen is typical of the many apple growers who have proved to themselves in their own orchards that it pays to use Captan year after year. Captan is their fungicide of choice because it is so rough on scab and yet so kind to foliage and fruit.

Stauffer Captan 50-W used in a full season schedule year after year has reduced scab to a minor problem in many orchards while

providing excellent control of fruit rots and other common summer diseases.

Captan controls scab in four ways:

(1) Applied before an infection period, Captan protects foliage and fruit from infection. (2) Applied shortly after infection occurs, Captan kills out the infection. (3) Applied when scab spots first appear, Captan inactivates the spots and prevents further spread of infection. (4) Applied in a full season schedule year after year, Captan reduces the overwintering scab fungus to such a low level that it becomes easier and easier to control each succeeding year.

It is for these and other reasons that

apple growers like Mr. Allen continue to use Captan as their fungicide of choice, year after year. It is their experience that it does more for them than any other apple fungicide.

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